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February 1965

PHOTOGRAPHIC INTERPRETATION REPORT

OAK PART V
MISSION 4015
24-27 JANUARY 1965



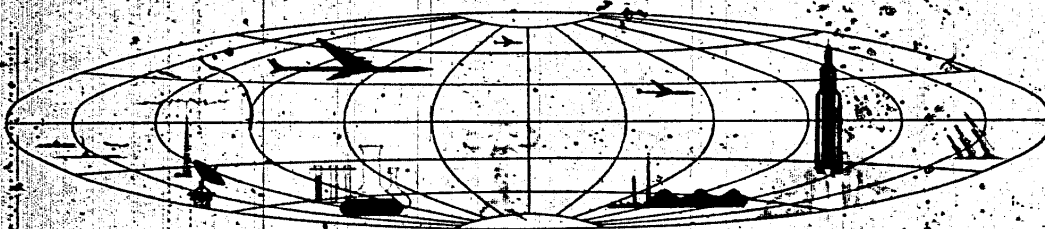
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MISSION 4015, 24-27 JANUARY 1965

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OAK PART V
MISSION 4015PREFACE

THIS IS THE FIFTH OF 6 OAK REPORTS ON MISSION 4015 AND PROVIDES INFORMATION ON THOSE COMMITTEE ON OVERHEAD RECONNAISSANCE (COMOR) TARGETS OBSERVED ON THE PHOTOGRAPHY.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATIONS OF TARGETS IN THIS REPORT ARE INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REPORTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA, AND THE LETTER A INDICATES THE AFT CAMERA. ABSENCE OF THESE LETTERS INDICATES THAT THESE ARE FRAME AND INDEX NUMBERS. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS - C (CLEAR), H (HAZE), CS (CLOUD SHADOW), HC (HEAVY CLOUD COVER), SC (SCATTERED CLOUD COVER), SD (SEMI DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY IS BEING ACCOMPLISHED IN A SHORT TIME AND PRIOR TO FINAL REFINEMENT OF EPHEMERAL DATA. CONSEQUENTLY, FUTURE DETAILED ANALYSIS MAY RESULT IN MINOR ALTERATIONS.

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Highlights

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HIGHLIGHTS

1. TYURATAM LAUNCH COMPLEX K

COMPARATIVE COVERAGE REVEALS A NEWLY IDENTIFIED SILO WITHIN THE SECURED L-SHAPED ELECTRONICS FACILITY. SILO IMAGERY AND CONSTRUCTION TECHNIQUE APPEAR THE SAME AS AT LAUNCH AREA G8-G9, HOWEVER, THE COMPLETED SIGNATURE IS NOT THE SAME AS AT LAUNCH AREA G8-G9. IT CLOSELY RESEMBLES SITE A1, TATISHCHEVO AND SITE D7 AND D14, OLOVYANNAYA. THIS NEWLY IDENTIFIED SILO IS DESIGNATED SITE K3.

2. KAPUSTIN YAR SAM LAUNCH COMPLEX

THE SAM LAUNCH COMPLEX, KAPUSTIN YAR AIRFIELD, AND THE ELECTRONICS SITE ARE COVERED ON GOOD, CLEAR STEREO PHOTOGRAPHY. ACTIVITY IS NOTED IN ALL LAUNCH AREAS, THE PROBABLE LAUNCH AREA, AND THE NEWLY SECURED AREA. EQUIPMENT IS PRESENT IN THE ELECTRONICS SITE AND AIRCRAFT ARE PRESENT AT KY AIRFIELD. THE PROBABLE SAM LAUNCH AREA 1.5 NM NW OF THE SAM R & D LAUNCH AREA IS STILL UNDER CONSTRUCTION. IN THE SAM RESEARCH AND DEVELOPMENT AREA, A NEW SAM LAUNCH AREA IS IDENTIFIED BETWEEN SITES A AND B. MANY ITEMS OF RADAR/ELECTRONICS EQUIPMENT ARE OBSERVED THROUGHOUT THE COMPLEX.

3. SARY-SHAGAN AMM LAUNCH COMPLEX A

COMPLEX A IS COMPLETELY COVERED ON CLEAR STEREO PHOTOGRAPHY WHICH IS THE FIRST GOOD QUALITY KH-7 COVERAGE OF THE COMPLEX. ALTHOUGH RELATIVELY LITTLE SIGNIFICANT CHANGE IS OBSERVED IN FACILITIES SINCE THE LAST KH-4 COVERAGE DEC 64, THE IDENTIFICATION OF NUMEROUS EXISTING FACILITIES, INCLUDING BOOM-TYPE LAUNCHERS/ERECTORS AT LAUNCHES SITES 5 AND 6 AND MANY PIECES OF RADAR/ELECTRONICS EQUIPMENT, IS POSSIBLE.

4. GOLOVCHINO SENSITIVE OPERATIONS COMPLEX

COMPLEX APPEARS COMPLETE. THERE ARE 5, POSSIBLY 6, BUNKERS IN THE OPERATIONS AREAS. AT LEAST 2 ARE IDENTICAL TO THE FIRST GENERATION BUNKERS AT BEREZOVKA AND CHEBSARA. OTHER FACILITIES IN THE COMPLEX ARE ALSO IDENTICAL TO THE FACILITIES AT BEREZOVKA AND CHEBSARA. TWENTY-TWO 74-FT AND THREE 46-FT LONG RAIL CARS ARE IN THE OPERATIONS SUPPORT RAIL FACILITY. THE CARS APPEAR IDENTICAL TO THE ONES OBSERVED AT OTHER

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SENSITIVE OPERATIONS COMPLEXES.

NOTE -- DETAILED ANALYSIS OF MISSION 4015 PHOTOGRAPHY DISCLOSES THAT THE VESSEL AT KOMSOMOLSK SHIPYARD AMUR 199 IS AN APPROXIMATELY 460- X 53-FT UNIDENTIFIED VESSEL UNDER CONSTRUCTION INSTEAD OF A KASHIN-CLASS DLG AS REPORTED IN OAK, PART III, [REDACTED]

STATUS OF COMOR TARGET READOUT

FORTY-FIVE COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN THIS OAK.

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MISSILES

VERKHNYAYA SALDA ICBM COMPLEX UR 5802N 06023E

AN AREA OF UNIDENTIFIED ACTIVITY IS APPROXIMATELY 3,000 FT NORTH OF THE AUXILIARY SUPPORT FACILITY AT 58-13N 060-42E. THE AREA CONSISTS OF CONSIDERABLE GROUND SCARRING AND 4 SMALL PROBABLE BUILDINGS. A PROBABLE EXCAVATION AND 2 SMALL POSSIBLE STRUCTURES ARE APPROXIMATELY 2,000 FT SW OF THE GROUND SCARRING. BOTH AREAS ARE CONNECTED BY ROAD TO THE AUXILIARY SUPPORT FACILITY, AND BOTH ARE ALSO APPARENTLY CONNECTED BY PROBABLE POWER LINE. RIGHTS-OF-WAY TO THE HOUSING AND SITE SUPPORT FACILITIES OF LAUNCH AREA G (SITE 8). THE ENTIRE AREA HAS CONTINUED TO DEVELOP SYSTEMATICALLY SINCE EVIDENCE OF PRELIMINARY ACTIVITY WAS FIRST OBSERVED [REDACTED] DEC 63.

TYURATAM LCH CPLX G (SITES 7, 11, 12, 18, 19) UR 4604N 06256E

LAUNCH COMPLEX G (SITES 7, 11, 12, 18, 19) --- ALL ELEMENTS OF THE COMPLEX ARE COVERED ON FAIR QUALITY, OBLIQUE PHOTOGRAPHY. NO OPERATIONAL ACTIVITY OBSERVED AT ANY OF THE LAUNCH AREAS.

LAUNCH AREA G1-G2 (SITE 7) --- NO SIGNIFICANT CHANGE SINCE LAUNCH AREA WAS REPORTED COMPLETE ON [REDACTED]

[REDACTED] THERE ARE 7 VEHICLES PARKED ALONG THE FENCE TO THE REAR OF G1 READY BUILDING. THERE ARE 2 SHORT RAIL CARS FORWARD OF G2 READY BUILDING. THESE 2 HAVE BEEN IN THE SAME POSITION ON NUMEROUS MISSIONS.

G3-G4 (SITE 11) --- BOTH SIDES OF THE LAUNCH AREA APPEAR COMPLETE. THERE IS AN APPROXIMATELY 100-FT LONG RAIL CAR, PROBABLY SOME TYPE OF GROUND SUPPORT EQUIPMENT, ON THE RAIL SPUR SERVING PAD G4. THERE ARE 4 APPROXIMATELY 40-FT LONG RAIL CARS ON THE RAIL SPUR LEADING TO THE RIGHT OF PAD G4.

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LAUNCH AREA G5-G6 (SITE 12) --- THE SINGLE GANTRY SERVING THIS LAUNCH AREA IS CENTERED ON PAD G6. THE GANTRY IS APPROXIMATELY 80 FT TALL AND 45 FT WIDE. NO MISSILE IS APPARENT IN THE GANTRY. THERE IS A SHORT VEHICLE ON THE PAD NEAR THE GANTRY AND TWO 4-FT VEHICLES ARE IN FRONT OF THE EARTH-MOUNDED BUILDING ON THE RIGHT SIDE OF THE CENTER ROAD. THE LARGER OF THE BUILDINGS ON THE RIGHT SIDE OF THE ACCESS ROAD APPEARS TO HAVE SEVERAL VEHICLE STALLS. THERE ARE AT LEAST 9 SMALL VEHICLES NEAR THESE BUILDINGS.

LAUNCH AREA G7 (SITE 18) --- CONSTRUCTION CONTINUES. THE SILO EXTENDS UP FROM THE BASE OF THE SILO EXCAVATION BUT IS PROBABLY NOT UP TO GROUND LEVEL. THE DITCHING IS STILL OPEN ON THE LEGS OF THE L-SHAPED ELECTRONICS FACILITY. THE BUILDING NEAR THE VERTEX OF THE L HAS NOT BEEN BACKFILLED.

LAUNCH AREA G8-G9 (SITE 19) --- THERE IS ACTIVITY AT BOTH APRONS SURROUNDING THE SILOS AND BOTH SILOS MAY BE OPEN. SCALE AND QUALITY PRECLUDE IDENTIFICATION OF THIS ACTIVITY.

COMPLEX SUPPORT FACILITY; REVETTED STORAGE FACILITY;

NO APPARENT CHANGE SINCE [REDACTED] AUG 64. CONSTRUCTION CONTINUES IN THE AREA IMMEDIATELY [REDACTED]

IT CANNOT BE DETERMINED IF THERE ARE SEVERAL SMALL, CLOSELY SPACED BUILDINGS OR 1 LARGE BUILDING HAVING NUMEROUS ROOMS OR CELLS. ONE SQUARE PORTION NEAR THE CENTER OF THE CONSTRUCTION IS TWICE AS TALL AS THE OTHER PORTIONS. IMMEDIATELY TO THE NW IS AN APPROXIMATELY 250- X 100-FT RECTANGULAR EXCAVATION WHICH APPEARS TO HAVE BEEN SCOOPED OUT BY A BULLDOZER.

TYURATAM LAUNCH COMPLEX K (SITE 13) UR 4602N 06303E

LAUNCH COMPLEX K (SITE 13) --- ALL ELEMENTS OF THE COMPLEX ARE COVERED ON POOR QUALITY, NON-STEREO

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PHOTOGRAPHY. A REVIEW OF COMPARATIVE COVERAGE REVEALS A NEWLY IDENTIFIED SILO WITHIN THE SECURED L-SHAPED ELECTRONICS FACILITY. THE SILO CAN BE IDENTIFIED UNDER CONSTRUCTION [REDACTED] JUN 64 AND IT APPEARS COMPLETE OR NEARLY COMPLETE ON SEP 64. NO ACTIVITY OBSERVED THROUGH THE SNOW COVER [REDACTED] FEB 64. SILO IMAGERY AND CONSTRUCTION TECHNIQUE APPEAR THE SAME AS THE SILOS AT LAUNCH AREA G8-G9 (SITE 19). HOWEVER, THE COMPLETED SIGNATURE IS NOT THE SAME AS AT LAUNCH AREA G8-G9. IT MORE CLOSELY RESEMBLES AT LEAST 3 DEPLOYED SITES. ONE OF THESE IS TATISHCHEVO, SITE A1 (SITE 1) AND THE OTHER 2 ARE OLDVYANNAYA, SITE D7 (SITE 6) AND D14 (SITE 17). THIS NEWLY IDENTIFIED SILO IS DESIGNATED SITE K3.

LAUNCH AREA K1-K2 (SITE 13) CONSTRUCTION CONTINUES ON BOTH SILOS. THEY EXTEND UP FROM THE BASE OF THE SILO EXCAVATION BUT MAY NOT YET BE UP TO GROUND LEVEL. A POSSIBLE RAMP EXTENDS ACROSS THE SILO EXCAVATIONS TO THE SILOS. BACK FILLING IS NOT APPARENT. DITCHING FIRST IDENTIFIED ON [REDACTED] NOV 64, IS VISIBLE LEADING FROM LAUNCH AREA G7 (SITE 18) TOWARD LAUNCH AREA K1-K2. NO OTHER DETAILS OBSERVED DUE TO SNOW COVER AND LACK OF STEREO PHOTOGRAPHY.

(ATTACHMENT 1)

[REDACTED] DMSK ICBM LAUNCH AREA A (SITE 1) UR 5509N 07337E

LAUNCH AREA IS COVERED ON GOOD QUALITY, NON-STEREO PHOTOGRAPHY WITH GROUND SNOW COVER. DOUBLE SECURITY FENCING IS NOW EVIDENT AROUND THIS COMPLETED TYPE III B LAUNCH SITE. ROADS ARE SNOW COVERED BUT APPEAR PASSABLE. SILO COVERS ARE RECTANGULAR. [REDACTED]

[REDACTED] WITH DOMED TOPS [REDACTED] SILO SEPARATION MEASURES APPROXIMATELY [REDACTED] A VEHICLE/PIECE OF EQUIPMENT APPROXIMATELY 10 X 50 FT IS ON THE ACCESS ROAD IN FRONT OF THE CENTER SILO. A NEWLY IDENTIFIED BUILDING IS WEST OF THE LAUNCH SITE, JUST OUTSIDE THE SECURITY FENCE. THE

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PLUS-CONFIGURED ELECTRONICS FACILITY WHICH IS SUPER-IMPOSED ON THE LAUNCH SITE HAS ANTENNA SILOS AT EACH EXTREMITY. SMALL SQUARE DOORS COVER THE SILOS.

SOME CONSTRUCTION IS APPARENT IN THE SITE SUPPORT FACILITY AND THE RIM FACILITY.

THE ADMINISTRATION AND HOUSING SECTION NOW CONTAINS ABOUT 30 BUILDINGS, 8 OF WHICH ARE NEW OR NEWLY IDENTIFIED SINCE [REDACTED] JUL 64. IN ADDITION TO THESE, 2 BURIED TANKS, APPROXIMATELY 30 VEHICLES, AND AN UNIDENTIFIED RECTANGULAR, EARTH-MOUNDED STRUCTURE WITH A HEXAGONAL OPENING IN ITS TOP ARE ALSO NEW OR NEWLY IDENTIFIED SINCE [REDACTED] JUL 64. FIVE NEW OR NEWLY IDENTIFIED BUILDINGS HAVE BEEN ADDED TO THE HOUSING SECTION SINCE [REDACTED] JUL 64. A NEW CONCRETE, ARCHED-ROOF, RIM BUILDING WITH SQUARE FACADES AT EACH END IS UNDER CONSTRUCTION IN THE RIM FACILITY WEST OF THE ORIGINAL RIM BUILDING. TWO TRAILER VANS ARE PARKED IN FRONT OF 1 OF THE TRIAD BUILDINGS AND 14 OTHERS ARE IMMEDIATELY EAST OF THE ORIGINAL RIM BUILDING. OPEN TRENCHING EXTENDS AROUND THE RIM FACILITY ON ITS SOUTH AND EAST SIDE FROM A POINT JUST WEST OF THE UNIDENTIFIED AREA TO A POINT JUST WEST OF THE NEW RIM BUILDING WHERE A CLOSED TRENCH CAN BE FOLLOWED NORTH TO THE EAST-WEST SITE ROAD, WHERE IT MAY CROSS AND HEAD NNW. AN OVAL-SHAPED REVETTED AREA, FIRST IDENTIFIABLE ON [REDACTED] DEC 64, IS JUST NORTH OF THE RIM FACILITY.

(ATTACHMENTS 2 AND 3)

[REDACTED] KOZELSK ICBM LAUNCH AREA A (SITE 3) UR 5354N 03544E

LAUNCH AREA IS COVERED ON POOR QUALITY, NON-STEREO PHOTOGRAPHY WITH GROUND SNOW COVER. NO NEW ACTIVITY OBSERVED AT THE LAUNCH SITE AND NO APPARENT CHANGE IN OTHER FACILITIES AT THE

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LAUNCH AREA SINCE [REDACTED] APR 64.
 PRELIMINARY MENSURATION INDICATES PAD SEPARATION
 AT THIS SITE IS 815 FT PLUS OR MINUS 5 PERCENT.
 NO OTHER CHANGE IN ESTABLISHED MENSURATION.

[REDACTED] KOZELSK ICBM LAUNCH AREA D (SITE 4) UR 5353N 03551E

LAUNCH AREA IS COVERED ON FAIR-TO-GOOD QUALITY,
 NON-STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE
 OBSERVED AT EITHER THE LAUNCH SITE, ELECTRONICS
 FACILITY, OR ADMINISTRATION AND HOUSING SECTION OF
 THE SITE SUPPORT FACILITY SINCE [REDACTED] MAR 64.
 THE OTHER HOUSING SECTION OF THE SITE SUPPORT
 FACILITY APPEARS TO HAVE BEEN REMOVED.

PRELIMINARY MENSURATION INDICATES ROAD SEPARATION
 AT THIS SITE IS 805 FT PLUS OR MINUS 5 PERCENT.
 NO OTHER CHANGE IN ESTABLISHED MENSURATION.

[REDACTED] KARTALY ICBM LAUNCH AREA A (SITE 1) UR 5301N 06026E

LAUNCH AREA A IS COVERED ON GOOD QUALITY,
 NON-STEREO PHOTOGRAPHY. THE LAUNCH SITE, IN THE
 MID-STAGE OF CONSTRUCTION, CONSISTS OF A SINGLE
 SILO UNDER CONSTRUCTION IN A SQUARE EXCAVATION.
 THE SILO STRUCTURE IS SQUARE WITH A CIRCULAR OPENING
 IN THE CENTER. A RECTANGULAR, FLAT-TOPPED
 EARTH-MOUND IS SITUATED NEAR THE WEST EDGE OF
 THE EXCAVATION. THIS MOUND SLOPES SLIGHTLY UPWARD,
 AWAY FROM THE EXCAVATION. THERE ARE AT LEAST 4
 SMALL BUILDINGS AND SEVERAL SMALL STRUCTURES IN
 THE VICINITY OF THE EXCAVATION.

AN ADDITIONAL LONG, RECTANGULAR BUILDING HAS BEEN
 ADDED TO THE GROUP OF ASSOCIATED BUILDINGS NORTH
 OF THE SITE. THE GROUP NOW CONTAINS 3 LONG,
 RECTANGULAR BUILDINGS AND AT LEAST 5 SMALLER
 STRUCTURES. SCARRING AND TRACK ACTIVITY ARE
 EVIDENT AT BOTH THE SITE AND THE GROUP OF
 ASSOCIATED BUILDINGS.

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KARTALY ICBM LAUNCH AREA B (SITE 2) UR 5256N 06031E

LAUNCH AREA B IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE LAUNCH SITE, IN A MID-STAGE OF CONSTRUCTION, CONSISTS OF A SINGLE SILO UNDER CONSTRUCTION IN A ROUGHLY SQUARE EXCAVATION. SHADOWS OBSCURE THE SILO OPENING BUT A RAMP-LIKE STRUCTURE EXTENDS OUT OVER THE EXCAVATION. THE RECTANGULAR EARTH-MOUND TO THE WEST OF THE EXCAVATION IS SIMILAR TO THE 1 AT LAUNCH AREA A EXCEPT THAT IT HAS A MORE FINISHED APPEARANCE. A SMALL BUILDING IS SITUATED AT THE BASE OF THIS MOUND, JUST OUTSIDE OF THE EXCAVATION. AT LEAST 6 OTHER SMALL BUILDINGS OR STRUCTURES ARE APPARENT IN THE VICINITY OF THE SITE.

A GROUP OF ASSOCIATED BUILDINGS WEST OF THE LAUNCH SITE CONSISTS OF 2 LONG, RECTANGULAR AND AT LEAST 8 SMALLER BUILDINGS OR STRUCTURES. SCARRING AND TRACKAGE INDICATE THAT A POSSIBLE THIRD SUCH BUILDING IS UNDER CONSTRUCTION ALONGSIDE THE EXISTING 2. SCARRING AND TRACK ACTIVITY OBSERVED AT BOTH THE SITE AND AT THE GROUP OF ASSOCIATED BUILDINGS.

KARTALY ICBM LAUNCH AREA C (SITE 3) UR 5255N 06024E

LAUNCH AREA IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE LAUNCH SITE IS SITUATED WITHIN A LARGE RECTANGULAR SECURED AREA. THE EXCAVATION APPEARS TO BE PARTIALLY FILLED WITH SNOW WHICH OBLITERATES ALL DETAIL. THE ONLY APPARENT ACTIVITY IS AT THE TERMINUS OF THE ROAD WHICH LEADS INTO THE SITE. ONE LARGE BUILDING AND 2 SMALLER STRUCTURES ARE VISIBLE. ANOTHER SMALL BUILDING IS UNDER CONSTRUCTION ADJACENT TO THE LARGE BUILDING. IN ADDITION, THERE ARE 3 SMALL BUILDINGS AND SEVERAL SMALL UNIDENTIFIED OBJECTS WITHIN THE SECURITY FENCE AND 2 ADDITIONAL SMALL BUILDINGS JUST OUTSIDE THE FENCE ALONG THE ACCESS

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ROAD.

A GROUP OF ASSOCIATED BUILDINGS NORTH OF THE SITE CONSISTS OF 1 LARGE RECTANGULAR BUILDING UNDER CONSTRUCTION AND FOOTINGS FOR A SECOND SIMILAR BUILDING. THE AREA ALSO CONTAINS 5 SMALLER BUILDINGS AND SEVERAL SMALL UNIDENTIFIED STRUCTURES. A SINGLE BUILDING IS SITUATED IN A SMALL, PROBABLY SECURED AREA EAST OF THE LAUNCH SITE.

KARTALY ICBM LAUNCH AREA D (SITE 4) UR 5251N 06027E

LAUNCH AREA IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. THE LAUNCH SITE, IN A MID-STAGE OF CONSTRUCTION, CONSISTS OF A SINGLE SILO UNDER CONSTRUCTION IN A SQUARE EXCAVATION. THE SILO STRUCTURE IS SQUARE AND A RAMP-LIKE STRUCTURE EXTENDS OUT OVER THE EXCAVATION TO THE SILO. A RECTANGULAR FLAT-TOPPED EARTH-MOUND IS SITUATED NEAR THE WEST EDGE OF THE EXCAVATION. AT LEAST 8 SMALL BUILDINGS OR STRUCTURES ARE APPARENT IN THE VICINITY OF THE SILO AS WELL AS NUMEROUS SMALL STRUCTURES OR UNIDENTIFIED OBJECTS. A PROBABLE CRANE WITH THE BOOM EXTENDED IS ALONG THE ACCESS ROAD NEAR THE SILO.

A GROUP OF ASSOCIATED BUILDINGS EAST OF THE LAUNCH SITE CONSISTS OF 3 LONG, RECTANGULAR BUILDINGS AND AT LEAST 7 SMALLER BUILDINGS AND STRUCTURES. THERE IS CONSIDERABLE TRACK ACTIVITY AND SCARRING IN THE VICINITY OF THE SILO AND THE ASSOCIATED BUILDINGS INDICATING THAT CONSTRUCTION IS IN PROGRESS.

IMENI GASTELLO ICBM LNCH AREA A (SITE 1) UR 5103N 06606E

LAUNCH AREA A IS COVERED ON GOOD QUALITY, STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE SINCE JAN 65. NO VEHICLES OR EQUIPMENT CAN BE IDENTIFIED. ROADS APPEAR TO BE PASSABLE AND IN

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USE.

IMENI GASTELLO ICBM LNCH AREA B (SITE 2) UR 5106N 06602E

LAUNCH AREA B IS COVERED ON GOOD QUALITY, STEREO
 PHOTOGRAPHY. NO SIGNIFICANT CHANGE SINCE
 JAN 65. NO VEHICLES OR EQUIPMENT CAN
 BE IDENTIFIED. ROADS APPEAR TO BE PASSABLE AND IN
 USE.

IMENI GASTELLO ICBM LNCH AREA C (SITE 3) UR 5110N 06606E

LAUNCH AREA C IS COVERED ON GOOD QUALITY, STEREO
 PHOTOGRAPHY. NO SIGNIFICANT CHANGE SINCE
 JAN 65. NO VEHICLES OR EQUIPMENT CAN BE
 IDENTIFIED. ROADS APPEAR TO BE PASSABLE AND IN
 USE.

IMENI GASTELLO ICBM LNCH AREA D (SITE 4) UR 5107N 06613E

LAUNCH AREA D IS COVERED ON GOOD QUALITY,
 STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE SINCE
 JAN 65. NO VEHICLES OR EQUIPMENT
 CAN BE IDENTIFIED. ROADS APPEAR TO BE PASSABLE
 AND IN USE.

IMENI GASTELLO ICBM LNCH AREA E (SITE 5) UR 5113N 06613E

IDENTIFICATION ONLY.

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IMENI GASTELLO ICBM LNCH AREA F (SITE 6) UR 5113N 06605E

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BEREZA IRBM LAUNCH SITE UR 5143N 03343E

GOOD QUALITY PHOTOGRAPHY PERMITS A DETAILED INTERPRETATION OF THIS IRBM LAUNCH AREA. PREVIOUS COVERAGE ON [REDACTED] JUN 64 [REDACTED] JUN 64, REVEALED 2 CONTROL BUNKERS AND 3 ELONGATED CLEARINGS THAT RESEMBLED LAUNCH PADS ON AN IN-LINE ROAD PATTERN. [REDACTED] HOWEVER, REVEALS ONLY 2 LAUNCH PADS, 1 CONTROL BUILDING, 2 READY BUILDINGS, AND A THIRD BUILDING PARALLEL TO THE 2 READY BUILDINGS. THIS CONSTITUTES ONLY ONE HALF OF A TYPICAL SOFT IRBM LAUNCH SITE. ONLY A FAINT OUTLINE OF THE SOUTHEASTERN HALF OF THE LAUNCH SITE IS VISIBLE. ERECTORS ARE VISIBLE AT BOTH COMPLETED PADS. TWO VEHICLES ARE ON THE NORTH LOOP ROAD BEHIND THE PADS AND 2-4 POSSIBLE VEHICLES ARE NEAR THE SOUTHERN LOOP ROAD JUNCTIONS.

KAPUSTIN YAR SAM LAUNCH COMPLEX UR 4848N 04545E

THE SAM LAUNCH COMPLEX, KY AIRFIELD, AND THE ELECTRONICS SITE ARE COVERED ON GOOD, CLEAR STEREO PHOTOGRAPHY. THIS MISSION PROVIDES THE BEST KH COVERAGE TO DATE OF THE SAM LAUNCH COMPLEX, HOWEVER, GROUND SNOW COVER LIMITS INTERPRETATION. ACTIVITY IS NOTED IN ALL LAUNCH AREAS, THE PROBABLE SAM LAUNCH AREA, AND THE NEWLY SECURED AREA. EQUIPMENT IS PRESENT IN THE ELECTRONICS SITE AND AIRCRAFT ARE PRESENT AT KY AIRFIELD.

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THE PROBABLE SAM LAUNCH AREA 1.5 NM NW OF THE SAM R & D LAUNCH AREA IS STILL UNDER CONSTRUCTION. THE PROBABLE LAUNCH AREA CONTAINS A PROBABLE GUARD TOWER, A GABLE-ROOFED SECURITY BUILDING AT THE ENTRANCE, 2 EARTH-MOUNDED OR BUNKERED BUILDINGS, A POSSIBLE REVETTED BUILDING UNDER CONSTRUCTION, 1 GABLE-ROOFED BUILDING, 1 CLERESTORY-ROOFED BUILDING UNDER CONSTRUCTION, AN EXCAVATION WITH A PROBABLE BUILDING UNDER CONSTRUCTION, AND THE PREVIOUSLY IDENTIFIED CIRCULAR STRUCTURE. THE LATTER IS APPROXIMATELY 15 FT HIGH AND CONSISTS OF A CIRCULAR WALL APPROXIMATELY 75 FT IN DIAMETER. THE CIRCULAR WALL IS OPEN TO GROUND LEVEL IN THE NORTHWESTERN PORTION. A 90-X 20-FT DRIVE-THROUGH STRUCTURE IS UNDER THE EASTERN SIDE OF THE WALL AND HAS A 40-X 15-FT WING ALONG THE SOUTHERN SIDE. ALONGSIDE THE 90 X 20-FT STRUCTURE AND IN THE CENTER OF THE CIRCULAR WALL THERE IS A SLIGHTLY TALLER STRUCTURE, 15 FT SQUARE. A POSSIBLE TOWER APPROXIMATELY 155-165 FT HIGH IS JUST NORTH OF THE CIRCULAR WALL.

CONSTRUCTION CONTINUES ON THE SECOND LOOP ROAD AND THE POSSIBLE BEGINNING OF A BYPASS ROAD IS VISIBLE AT THE NW EDGE OF THE LAUNCH AREA. TWO PIECES OF POSSIBLE CONSTRUCTION EQUIPMENT ARE AT THE NW EDGE OF THE LAUNCH AREA.

THE NEWLY SECURED AREA SW OF THE PROBABLE SAM LAUNCH AREA HAS AN APPROXIMATELY 2,575-X 2,120-FT DOUBLE FENCE UNDER CONSTRUCTION. AN 80-X 40-FT BUILDING IS UNDER CONSTRUCTION IN THE APPROXIMATE CENTER OF THE AREA AND A COMPLETED 40-X 30-FT BUILDING IS AT THE EASTERN EDGE.

A TOTAL OF 9-10 PROBABLE GUILD MISSILES CAN BE OBSERVED ON TRANSPORTERS AND LAUNCHERS AT THE SA-1 HERRINGBONE LAUNCH AREA. THE YO YO GUIDANCE FACILITIES SHOW NO SIGNIFICANT CHANGE EXCEPT THAT WHAT WAS IDENTIFIED AS A NEW BUILDING IN NPIC/R-5139/64 CAN BE SEEN TO BE A RECTANGULAR EXCAVATION.

THE SAM RESEARCH AND DEVELOPMENT LAUNCH AREA IS

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ACTIVE. THE 2 LARGE HOLD REVELMENTS, SITE F, AND SITE B ARE OCCUPIED BY MOBILE EQUIPMENT. NEWLY IDENTIFIED, BUT FIRST EVIDENT ON [REDACTED] SEP 64 ARE 3 RADAR MOUNDS IMMEDIATELY EAST OF, WEST OF, AND WITHIN THE NORTHERN EDGE OF THE OUTER SERVICE ROAD AT SITE B. THE WESTERN MOUND IS OCCUPIED BY A PROBABLE TOKEN-TYPE RADAR AND THE EASTERN MOUND IS OCCUPIED BY A PROBABLE HEIGHT-FINDER RADAR. THE CENTRAL GUIDANCE AREA AT LAUNCH SITE B IS OCCUPIED AND HAS A PROBABLE LOW BLOW GUIDANCE RADAR. THE REST OF SITE B IS PRIMARILY OCCUPIED BY ELECTRONICS VANS. SITE F IS OCCUPIED AND ITS CENTRAL GUIDANCE AREA HAS A PROBABLE LOW-BLOW GUIDANCE RADAR. THE PINWHEEL SITE HAS PROBABLE VANS AT 2 OF ITS 4 LAUNCH POSITIONS.

EQUIPMENT IS OBSERVED THROUGHOUT THE SA-2 LAUNCH AREA, HOWEVER, NO SIGNIFICANT CHANGE IS OBSERVED AT THE KNOWN LAUNCH FACILITIES. A NEW LAUNCH AREA, IDENTIFIED BETWEEN SITES A AND B, HAS 5 LAUNCH POSITIONS, 2 OF WHICH ARE OCCUPIED BY PROBABLE GUIDELINE LAUNCHERS, AND A CENTRAL GUIDANCE AREA OCCUPIED BY A PROBABLE FAN SONG GUIDANCE RADAR. THE ROAD PATTERN FOR THE LAUNCH AREA, DESIGNATED LAUNCH SITE E, WAS APPARENT ON [REDACTED] DEC 59; HOWEVER, THE EQUIPMENT WITHIN THE LAUNCH AREA WAS NOT IDENTIFIABLE PRIOR TO THIS PHOTOGRAPHY. LAUNCH SITES A AND B EACH HAVE 3 POSITIONS OCCUPIED BY GUIDELINE LAUNCHERS AND CENTRAL GUIDANCE AREAS OCCUPIED WITH A FAN SONG GUIDANCE RADAR IN EACH. LAUNCH SITE C IS UNOCCUPIED, ALTHOUGH 2 HARDSTANDS HAVE BEEN IDENTIFIED ON THE OUTER EDGE OF THE SERVICE ROAD OPPOSITE THE 2 NORTHERNMOST LAUNCH POSITIONS. THESE HARDSTANDS WERE PRESENT ON [REDACTED] APR 63. THE ROAD PATTERN OF LAUNCH SITE D, REPORTED IN NPIC/R-126/63 IS VISIBLE, HOWEVER, THE SITE PROBABLY HAS REMAINED INACTIVE SINCE 1962. THE PROBABLE SA-2 RIVOUAC AREA, IDENTIFIED IN NPIC/R-5139/64, CAN BE CONFIRMED AND HAS BASES FOR APPROXIMATELY 215 TENTS.

EQUIPMENT IS VISIBLE THROUGHOUT THE SA-3 LAUNCH AREA. THE TOWER AT SITE B HAS A PROBABLE LOW BLOW GUIDANCE RADAR ON ITS LATTICE TOWER AND

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3 POSITIONS OCCUPIED BY SA-3 LAUNCHERS. SITE A HAS A POSSIBLE LOW BLOW GUIDANCE RADAR AND ASSOCIATED VANS IN THE CENTRAL GUIDANCE AREA, 2 POSITIONS OCCUPIED BY SA-3 LAUNCHERS, AND 1 POSSIBLE SA-3 LAUNCHER OUT OF POSITION. SITE C HAS A PROBABLE LOW BLOW GUIDANCE RADAR AND ASSOCIATED VANS IN ITS CENTRAL GUIDANCE AREA, AND SNOW-COVERED, UNOCCUPIED LAUNCH POSITIONS. SITE D HAS AN UNIDENTIFIED RADAR AND ASSOCIATED VANS IN ITS CENTRAL GUIDANCE AREA AND SNOW COVERED UNOCCUPIED LAUNCH POSITIONS. A LARGE NUMBER OF VEHICLES/PIECES OF EQUIPMENT ARE ON THE LAUNCH AREA HANDSTANDS, PRIMARILY ON THE HANDSTAND SOUTH OF LAUNCH SITE B.

SIX NEW BUILDINGS HAVE BEEN ADDED TO THE SAM HOUSING AND SUPPORT AREA SINCE APRIL 1962. AT THE OPERATIONAL SA-2 SITE, 2 LARGE REVETMENTS, 90 X 90 FT AND 195 X 130 FT, HAVE BEEN ADDED. THEY ARE NOT DRIVE-THROUGH AND PROBABLY DO NOT HAVE THE SAME FUNCTION AS THOSE IDENTIFIED IN NPIC/R-302/63 ALONG THE POLISH-RUSSIAN BORDER.

THE SAM WARHEAD AREA IS UNCHANGED ALTHOUGH 20-25 VEHICLES ARE VISIBLE IN THE AREA.

THE MISSILE CHECKOUT AND STORAGE AREA SHOWS NO SIGNIFICANT CHANGE. HOWEVER, THE POSSIBLE REVETMENT IDENTIFIED IN NPIC/R-5139/64 CAN BE CONFIRMED.

AT THE ELECTRONICS SITE NORTH OF KY AIRFIELD A TALL KING RADAR IS APPROXIMATELY 1,000 FT EAST OF THE 70-FT-HIGH ELEVATED PLATFORM, AND 3 OF THE 4 LARGE MOUNDS IN THE CENTER OF THE SITE ARE OCCUPIED BY TOWN-TO-TOE TYPE RADAR, WHILE THE FOURTH IS UNOCCUPIED. FOUR PROBABLE HEIGHT-FINDER RADARS ARE JUST NORTH OF THE CENTER PAIR OF THE 4 LARGE MOUNDS. TWO MORE PROBABLE HEIGHT-FINDER RADARS ARE APPROXIMATELY 1,500 FT WEST OF THE LENINGRAD-TYPE ELEVATED PLATFORM. BETWEEN THESE 2 PROBABLE HEIGHT-FINDERS AND THE LENINGRAD-TYPE ELEVATED PLATFORM IS A LATTICE TOWER. NO ANTENNAS CAN BE IDENTIFIED ON EITHER OF THE ELEVATED PLATFORMS.

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NO APPARENT CHANGE IN FACILITIES AT THE KAPUSTIN YAR AIRFIELD SINCE [REDACTED] SEP 64. HOWEVER, A FIRING BUTT IS NEWLY IDENTIFIED. AIRCRAFT -- 4 CRATE, 14 CAB, 8 COLT, 9 CREEK, AND 11 HOUND.

FOUR OF THE 7 APRONS IN THE MARSHALLING AREA HAVE VEHICLES/PIECES OF EQUIPMENT ON THEM AND LARGE NUMBERS OF PIECES OF EQUIPMENT ARE VISIBLE THROUGHOUT THE AREA. NO SIGNIFICANT CHANGE IN THE MARSHALLING AREA.

NO SIGNIFICANT CHANGE SINCE [REDACTED] JAN 65, AT THE BASE SUPPORT AND HOUSING AREA AND SAM INSTRUMENTATION SITES 4, 5, 6, 7, 8, AND 9.

A NEWLY IDENTIFIED INSTRUMENTATION SITE IS 1.2 NM SE OF THE MISSILE PROPELLANT AND STORAGE AREA AT 48-44-00N 045-45-00E. THE SITE CONSISTS OF A CENTRAL CONTROL BUILDING WITH A RAISED STRUCTURE OR CHIMNEY, A PROBABLE R-400-TYPE MICROWAVE TOWER, 2 TOWER-MOUNTED CIRCULAR ANTENNA REFLECTORS (1 ON EITHER SIDE OF THE CENTRAL BUILDING), 1 PROBABLE MAST-MOUNTED ANTENNA, APPROXIMATELY 20 VEHICLES AND ELECTRONICS VANS PARKED IN 7 SEPARATE GROUPS, AND 10 LOW RECTANGULAR FLAT MOUNDS, 6 OF WHICH SUPPORT VEHICLES OR SMALL UNIDENTIFIED EQUIPMENT. THE SITE IS FENCED AND SURROUNDED BY DOUBLE FIREBREAKS. ONE OF THE TOWER-MOUNTED REFLECTORS IS OUTSIDE THE FENCE. THIS SITE WILL BE DESIGNATED INSTRUMENTATION SITE 12.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS

(ATTACHMENTS 4-9)

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MIC0003A SARY-SHAGAN AMM LNCH CMLX A (SITE 2B30) UR 4623N 07252E

LAUNCH COMPLEX A IS COMPLETELY COVERED ON GOOD QUALITY, CLEAR STEREO PHOTOGRAPHY WITH GROUND SNOW COVER. THIS IS THE FIRST GOOD QUALITY KH-7 COVERAGE OF THE COMPLEX. ALTHOUGH RELATIVELY LITTLE SIGNIFICANT CHANGE IS OBSERVED IN FACILITIES SINCE THE LAST KH-4 COVERAGE OF [REDACTED] DEC 64, IDENTIFICATION OF NUMEROUS EXISTING FACILITIES IS POSSIBLE FROM ANALYSIS OF THE LARGER SCALE PHOTOGRAPHY.

HEADQUARTERS AND ADMINISTRATION AREA -- NO SIGNIFICANT CHANGE SINCE [REDACTED] DEC 64. IDENTIFICATION IS NOW POSSIBLE OF RADARS MOUNTED ON 3 PREVIOUSLY REPORTED TOWERS SITUATED ALONG THE NORTHERN BOUNDARY OF THE AREA IMMEDIATELY NORTH OF THE MICROWAVE TOWER. A PROBABLE HEIGHT-FINDER IS POSITIONED ON THE ROOF OF THE SOUTHERN TOWER, AND A TOKEN-TYPE RADAR IS ON THE ROOFS OF THE OTHER 2 TOWERS. JUST NW OF THE 3 TOWERS IS A SMALL OBSERVATION-TYPE BUILDING ON A HIGH POINT. TO THE EAST OF THE TOWERS ARE 16 VEHICLES/PIECES OF EQUIPMENT.

LAUNCH SITE 1 -- SITE IS SECURED BY A DOUBLE FENCE. FIVE OF THE 6 UNREVIEWED LAUNCH POSITIONS ARE OCCUPIED -- 4 BY PROBABLE SA-2 LAUNCHERS AND THE FIFTH BY AN UNIDENTIFIED LAUNCHER. THE SINGLE HARDSTAND WITH A LOW REYETMENT ALONG THE OUTER SERVICE ROAD IS OCCUPIED. THE CENTRAL GUIDANCE AREA CONTAINS A FAN SONG RADAR, A POSSIBLE FAN SONG RADAR, 5 VANS, AN UNOCCUPIED RAMP, A BUILDING, AND SEVERAL SHEDS. JUST EAST OF THE LAUNCH AREA ARE 6 PROBABLE MISSILE TRANSPORTERS (1

[REDACTED] 6 PROBABLE VANS, 7 VEHICLES, AND A NUMBER OF PROBABLE BOGIE WHEELS. NO SIGNIFICANT CHANGE IN FACILITIES OR EQUIPMENT SINCE [REDACTED] DEC 64.

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LAUNCH SITE 2 -- THE 6 UNREVIEWED LAUNCH POSITIONS AT LAUNCH SITE 2, WHICH HAS NOT RECENTLY BEEN AS ACTIVE AS SITE 1, ARE UNOCCUPIED. THERE IS NO EVIDENCE OF THE SINGLE HARDSTAND ALONG THE OUTER SERVICE ROAD, WHICH WAS OCCUPIED BY AN OBJECT WITH HEIGHT FROM [REDACTED] APR 63 THROUGH [REDACTED] FEB 64.

THERE IS NO RADAR IN THE CENTRAL GUIDANCE AREA WHERE ONLY 1 BUILDING AND 1 SHED CAN BE FOUND. TWELVE VEHICLES ARE PARKED IMMEDIATELY EAST OF THE LAUNCH AREA. NO CHANGE IN FACILITIES SINCE [REDACTED] DEC 64.

ELECTRONICS SITE A -- UNIDENTIFIED PROBABLE ELECTRONICS EQUIPMENT APPEARS TO BE ON A SLIGHTLY ELEVATED CENTRAL POSITION AT THE SITE. THE PATTERN AND LOCATION WOULD SUGGEST ELECTRONICS EQUIPMENT, ALTHOUGH NOT DEFINITELY IDENTIFIABLE AS SUCH. ONE BUILDING, 6 PIECES OF UNIDENTIFIED EQUIPMENT, AND TWO 35-FT LONG PROBABLE TRUCKS OBSERVED. THREE MOVING VEHICLES ARE ALONG THE ROAD LEADING TO THE SITE.

LAUNCH SITES 3 AND 4 -- LAUNCH SITES 3 AND 4 AND ELECTRONICS SITE B ARE WITHIN THE SAME DOUBLY FENCED AREA ADJACENT TO LAUNCH SITES 1 AND 2 BUT ARE SEPARATED FROM THESE 2 SITES BY A FENCE. NO ELECTRONICS EQUIPMENT CAN BE IDENTIFIED IN THE CENTRAL AREAS OF EITHER SITE. CABLE SCARS EXTEND FROM ELECTRONICS SITE B TO THE CENTRAL AREAS OF SITES 3 AND 4, AND FROM THE CENTRAL AREA OF EACH TO THE 6 LAUNCH POSITIONS, AS WELL AS TO 3 POSSIBLE JUNCTION BOXES AT EACH SITE. DEPLOYMENT OF EQUIPMENT DIFFERS SOMEWHAT AT MOST OF THE 12 LAUNCH POSITIONS. AN APPROXIMATELY 20-FT LONG PROBABLE LAUNCHER CAN BE IDENTIFIED ON THE SEMICIRCULAR INWARD PORTION OF POSITIONS 1, 3, AND 4 AT SITE 3 AND OF POSITION 6 AT SITE 4. IT IS OF INTEREST THAT A PROBABLE LAUNCHER IS PRESENT ON THE INWARD PORTION OF BOTH POSITIONS (3 AND 4 OF SITE 3) WHERE THE 2 APPROXIMATELY 45- X 25-FT OBJECTS ARE POSITIONED AND HAVE BEEN SINCE AT LEAST [REDACTED] MAY 62. TWO SUCH OBJECTS WERE

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DEPLOYED ON THE OTHER POSITIONS OF SITE 3 UNTIL [REDACTED] APR 63. AT POSITIONS 2, 4, AND 5 AT SITE 4 AN OBJECT WITH HEIGHT (1 OF ROUND CONFIGURATION) IS VISIBLE IN THE CENTER OF THE INWARD PORTION OF EACH POSITION. THE FORKED PORTION OF THE POSITIONS HAS A MINIMUM OF 2 VANS/PIECES OF EQUIPMENT (SOMETIMES 1 IS ON EITHER FORK AND A SMALLER ONE IS IN THE CENTER).

THE DISTANCE FROM THE LAUNCHER TO 1 OF THE VANS IS APPROXIMATELY 140 FT. THE CENTRAL AREA AT SITE 3 IS OCCUPIED BY 6 VANS AND THE CENTRAL AREA AT SITE 4 BY A BUNKER, A SMALL CYLINDRICAL STRUCTURE, 1 SMALL BUILDING, AND 6 PIECES OF EQUIPMENT. A TOTAL OF APPROXIMATELY 45 UNIDENTIFIED PIECES OF EQUIPMENT/VANS/VEHICLES (A NUMBER OF WHICH ARE APPROXIMATELY 20 FT LONG) ARE DEPLOYED ON THE LAUNCH POSITIONS OF BOTH SITES OR ON ADJACENT TERRAIN. POSITION 5, SITE 3, RECONSTRUCTED SINCE [REDACTED] DEC 63, IS SERVED BY A U-SHAPED REVETMENT WITH INSIDE DIMENSIONS OF APPROXIMATELY 185 X 65 FT, AND BY A SMALL C-SHAPED, [REDACTED] REVETMENT ON THE OTHER SIDE OF THE SITE LOOP ROAD. TWO OBJECTS (ONE WITH HEIGHT) ARE AT THE WEST END OF THE POSITION, AND 1, POSSIBLY TWO OBJECTS, ARE AT THE EAST END. NARROW DARK SCAR EXTENDS FROM THE WEST END OF THE POSITION TOWARD THE LOOP ROAD. A DARK, GENERALLY FORKED PATTERN IN THE SNOW CONNECTS THE 2 EXTREMITIES. THIS PATTERN, NOT APPARENT AS SUCH ON [REDACTED] DEC 64, INDICATES ACTIVITY OF AN UNDETERMINED KIND SINCE THAT TIME. AT POSITION 6, SITE 3, THE UNREVELLED POSITION RECONSTRUCTED SINCE [REDACTED] DEC 63, 1 LONG OR SEVERAL SHORT OBJECTS (TOTAL IMAGE LENGTH OF APPROXIMATELY 58 FT) ARE ON THE ROAD AT THE WEST END OF THE POSITION. THESE OBJECTS WERE EITHER NOT PRESENT OR NOT POSITIONED IN THE SAME MANNER ON [REDACTED] DEC 64. TWO OBJECTS ARE AT THE OTHER END OF THE POSITION, APPROXIMATELY 125 FT EAST. A MICROWAVE/TELEMETRY TOWER IS 85 FT EAST OF THE REVETTED SITE AND WITHIN THE SAME FENCED AREA.

ELECTRONICS SITE B -- NO ELECTRONICS EQUIPMENT CAN BE IDENTIFIED ON THE ROOFS OF THE 3 MAJOR

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BUILDINGS AT THE SITE. A MOVING VEHICLE IS ON THE ROAD JUST EAST OF THESE BUILDINGS. AT EACH OF THE 3 POSITIONS TO THE WEST, WSW, AND SW OF THE 3 BUILDINGS IS A VAN-MOUNTED MULTI-FUNCTION TRACKING AND GUIDANCE RADAR. THE NORTHERNMOST OF THE 3 RADARS WAS NOT PRESENT ON [REDACTED] DEC 64. PRESENCE OF THE OTHER 2 COULD NOT BE DETERMINED ON THAT MISSION. ADDITIONAL VEHICLES/PIECES OF EQUIPMENT APPEARED DURING THIS PERIOD.

THE SEPARATELY FENCED SW EXTENSION TO ELECTRONICS SITE B IS OCCUPIED BY A PROBABLE TALL KING RADAR, 1 SMALL BUNKER, AND 1 SMALL BUILDING. THE REVETMENTS AND THE RATHER INTRICATE ROAD SYSTEM, WIDENED IN A NUMBER OF INSTANCES TO FORM APRONS OF VARIOUS PATTERNS, HAVE NOT CHANGED SINCE [REDACTED] DEC 64. THE SINGLE REVETMENT JUST SW OF LAUNCH SITE 4 HAS A MAXIMUM LENGTH OF 160 FT ALONG ITS BASE, AND IS APPROXIMATELY 10 FT HIGH.

LAUNCH SITE 5 --- 5 RADIALS CAN BE SEEN EXTENDING THROUGH THE SNOW FOR APPROXIMATELY 55 FT FROM THE REAR OF THE MISSILE-READY BUILDING WHICH IS 140 FT LONG ON 1 SIDE, 80 FT LONG ON THE OTHER SIDE, [REDACTED] PIECE OF EQUIPMENT IS PARKED ALONG 1 OF THESE RADIALS. NO PATTERN IS APPARENT THROUGH THE SNOW IN FRONT OF THE BUILDING. APPROXIMATELY 90 FT FROM THE MISSILE-READY BUILDING IS A LAUNCH POSITION WITH A BOOM-TYPE LAUNCHER/ERECTOR. THERE ARE 2 OTHER LAUNCH POSITIONS (200 FT ON EITHER SIDE OF THE CENTRAL POSITION), EACH WITH AN IDENTICAL BOOM-TYPE LAUNCHER/ERECTOR. THE ARM OF EACH IS APPROXIMATELY 45 FT LONG. JUST EAST OF THE NORTHERN LAUNCH POINT IS A PROBABLE CHERRY-PICKER, AND BEYOND THAT TO THE EAST, AN UNIDENTIFIED OBJECT, POSSIBLY AN OPEN SEGMENT OF THE MISSILE-READY BUILDING. A [REDACTED] UNIDENTIFIED OBJECT IS ON THE SOUTHERN LAUNCH POSITION, WHICH HAS NO CURVED BUILDING OR SEGMENT OF A BUILDING. TWO SMALL SQUARE STRUCTURES ARE POSITIONED EQUI-DISTANT BETWEEN THE 3 LAUNCH POSITIONS AND MAY POSSIBLY CONTAIN OPTICAL AIDS.

LAUNCH SITE 6 -- SITE 6 CONTAINS A MISSILE-READY BUILDING (APPROXIMATELY 140/60 [REDACTED] WITH 5

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RADIALS EXTENDING FROM THE REAR OF THE BUILDING AND 2 LAUNCH POSITIONS SIMILAR TO THOSE AT SITE 5 WITH BOOM-TYPE LAUNCHER/ERECTORS, AND 1 SMALL SQUARE STRUCTURE MIDWAY BETWEEN THE 2. THREE SHALLOW CIRCULAR EXCAVATIONS, EACH [REDACTED] ARE AT THIS SITE BUT NOT AT SITE 5 -- ONE JUST SOUTH OF THE PRINCIPAL LAUNCH POINT AND 2 SOUTH OF THE SITE TOWER APPROXIMATELY 410 FT APART. THESE EXCAVATIONS WERE PRESENT ON [REDACTED] APR 63 AND MAY POSSIBLY HAVE BEEN PRESENT AS EARLY [REDACTED] APR 60. AN OUTLINE OF A SEGMENT OF THE CURVED BUILDING WITH NO APPARENT HEIGHT IS OBSERVED AT THE NORTHERN LAUNCH POSITION WITH AN UNIDENTIFIED OBJECT ADJACENT.

ELECTRONICS SITE C -- NO CHANGE IN FACILITIES AT THE CONTROL CENTER SINCE [REDACTED] DEC 64. NO ELECTRONICS FACILITIES CAN BE IDENTIFIED AT THE SITE. NO ELECTRONICS EQUIPMENT IS VISIBLE ON THE ROOFS OF THE BUILDINGS. APPROXIMATELY 800 FT NW OF THE CONTROL CENTER IS A SECURED AREA CONTAINING A 50-FT DOME (PRESENT ON [REDACTED] APR 60) AND A BUILDING HAVING A POSSIBLE UNDERGROUND ENTRANCE. THE FENCELINE HAS BEEN EXTENDED TO THE NNW TO INCLUDE 2 UNOCCUPIED RADAR MOUNDS, THE APPROXIMATE SITE OF A TROKEN-TYPE RADAR OBSERVED ON [REDACTED] APR 60. THE SW EXTREMITY OF ELECTRONICS SITE C CONSISTS OF A TOWER HAVING 2 LARGE BACK-TO-BACK PARABOLIC REFLECTORS WITH A FEED AND WAVE GUIDE, AND FEED AND WAVE GUIDE SUPPORTS. THE TOWER IS POSITIONED ON A SOMEWHAT ELEVATED APRON WITH A LOW BUILDING, PROBABLY SEMI-BURIED, ABUTTING IT AT ITS NW CORNER. IN MAJOR COMPONENTS, THE NE EXTREMITY IS A MIRROR IMAGE OF THE SW EXTREMITY. THE SAME DISTINCTIVE TOWER WITH 2 LARGE BACK-TO-BACK PARABOLIC REFLECTORS WITH A FEED AND WAVE GUIDE, AND FEED AND WAVE GUIDE SUPPORTS IS POSITIONED ON A SOMEWHAT ELEVATED APRON WHICH HAS AN UNDERGROUND ENTRANCE AT THE NORTH END. THIS ENTRANCE IS NOT PRESENT AT THE SW EXTREMITY. A TALL, PROBABLE CRANE WHICH HAD BEEN HERE SINCE [REDACTED] APR 63 IS NOT AT THE SW EXTREMITY. A CIRCULAR RIDGE-LIKE PATTERN IS ON THE APRON ENCIRCLING THE TOWER AT THE NE EXTREMITY BUT IS NOT DISCERNIBLE AT THE SW EXTREMITY (ALTHOUGH SUCH A PATTERN HAS PREVIOUSLY BEEN OBSERVED THERE).

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ELECTRONICS SITE D -- NO APPARENT CHANGE SINCE
[REDACTED] DEC 64.

THE TALL TOWER CAN BE IDENTIFIED AS A PROBABLE
MICROWAVE TOWER. THREE VEHICLES ARE IN THE AREA.
A LONG, GENERALLY L-SHAPED FENCED APPENDAGE, NOT
PREVIOUSLY IDENTIFIED, EXTENDS OUT TOWARD THE NW.
SEVERAL SMALL STRUCTURES (INCLUDING 1 WATER TOWER)
ARE CONTAINED WITHIN THE AREA.

MISSILE STORAGE AND CHECKOUT AREA -- BUILDINGS
REMAIN UNCHANGED SINCE [REDACTED] DEC 64. TEN
VEHICLES/PIECES OF EQUIPMENT AND UNIDENTIFIED
MATERIAL ARE VISIBLE. THE SEPARATELY FENCED
EXTENSION TO THE WEST OF THE MAIN AREA AND WITHIN THE
OVERALL FENCELINE CONTAINS A REVETTED BUILDING
AND 4 SMALL BUNKERS.

RADAR TRACKING SITE -- A RADAR TRACKING SITE,
PREVIOUSLY REPORTED AS A PROBABLE ELECTRONICS
FACILITY, IS NOW IDENTIFIED 2,400 FT SW OF
ELECTRONICS SITE B. IT WAS FIRST OBSERVED ON
[REDACTED] APR 63. IT IS COMPRISED OF 2 TOKEN-TYPE
RADARS, 2 HEIGHT-FINDERS, 10 VANS, A MOBILE HF
FACILITY, AND 2 OPTICAL INSTRUMENT POSITIONS UNDER
ENVIRONMENTAL DOMES.

AIRSTRIIP -- NO APPARENT CHANGE SINCE [REDACTED]
DEC 64 AT THE AIRSTRIIP, WHICH IS SNOW COVERED.

SAM SITE C35-2 -- ALL 6 LAUNCH POSITIONS ARE
OCCUPIED (3 POSSIBLY BY MISSILES). TWO MISSILE
TRANSPORTERS ARE PARKED IN 1 HOLD REVETMENT AND
4 SETS OF BOGIE WHEELS IN ANOTHER. NEAR THE LAUNCH
SITE ARE 5 UNIDENTIFIED PIECES OF EQUIPMENT
AND A SPOON REST RADAR. A FAN SONG RADAR AND
POSSIBLE COVERED VANS OCCUPY THE CENTRAL GUIDANCE
AREA. EIGHT VEHICLES ARE PARKED IN THE ON-SITE
SUPPORT FACILITY.

PHOTOGRAPHIC REFERENCES FOR SIGNIFICANT ITEMS ON
[REDACTED]

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MIC0015A EMBA MSLE ASSOC INSTLN-SUPPORT AREA A UR 4846N 05803E

MISSION 4015 PROVIDES THE BEST COVERAGE TO DATE OF SUPPORT AREA A AND EMBA AIRFIELD. TWO LARGE MULTISTORY BUILDINGS ARE UNDER CONSTRUCTION IN SUPPORT AREA A. INITIAL CONSTRUCTION ON 1 BEGAN AFTER [REDACTED] NOV 64 AND THE OTHER HAS BEEN UNDER CONSTRUCTION SINCE [REDACTED] JUN 64. THERE ARE OPEN STORES OF MATERIAL IN 2 AREAS A POL DRUM STORAGE AREA, 2 MOTOR POOLS WITH AT LEAST 255 VEHICLES/PIECES OF EQUIPMENT, AND AT LEAST 55 RAILROAD CARS PARKED WITHIN THE AREA. ADDITIONAL RAILROAD EQUIPMENT IS PARKED ADJACENT TO SUPPORT AREA A.

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AT THE AIRFIELD THERE IS AN ILS SYSTEM, GCA SYSTEM, POL DRUM STORAGE AREA, AND A MOTOR POOL WITH AT LEAST 25 VEHICLES. A PROBABLE MAINTENANCE AREA CONTAINS 8 CRATES, APPROXIMATELY 35 X 15 FEET, AND AT LEAST 10 VEHICLES/PIECES OF EQUIPMENT.

AIRCRAFT --- 1 HOOK, 1 PROBABLE HARE, 16 BEAGLE, 3 CAB, 1 COLT, AND 14 FAGOT/FRESCO.

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MIC0015C EMBA CONTROL CENTER INST SITE 2 UR 4832N 05802E

THE OPERATIONAL PORTION OF THE FACILITY CONSISTS OF A CENTER CONTROL BUILDING BETWEEN 20-FT DIAMETER DOMED SILOS (2 ON EACH SIDE OF THE CONTROL BUILDING), A ROW OF 6 PROBABLE VEHICLES, AND A ROW OF 8 ELECTRONICS

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VANS COLINEAR WITH AND TO THE EAST OF THE DOMED SILOS, A BUILDING WITH 4 SMALL PIECES OF UNIDENTIFIED EQUIPMENT ON ITS ROOF, AN ELECTRONICS VAN AND MOBILE GENERATOR TO THE WEST OF THE SILOS, AND AN R-400-TYPE MICROWAVE TOWER. NINE ADDITIONAL BUILDINGS OF VARIOUS SIZES INCLUDING A HEATING/GENERATOR PLANT AND A BUILDING WITH A SMALL RAISED END SECTION ARE ALSO IN THE AREA.

PING-FENG-SHE-CHENG TANK PLANT CH 4039N 10954E

WALLED PLANT AREA CONTAINS 1 LARGE ASSEMBLY BUILDING, 1 FOUNDRY, 3 FOUNDRY/MACHINE SHOPS, 4 MACHINE SHOPS, NUMEROUS SMALLER BUILDINGS, 3 BURIED POL TANKS, AND A FIRING-IN BUTT. A TEST TRACK AND SUPPORTING FACILITIES ARE 2.5 NM NW OF THE VEHICLE PLANT. NO VEHICLES OR MISSILE-RELATED EQUIPMENT OBSERVED IN THE PLANT OR TEST AREA.

CAIRO SAM SITE B17-2 EG 2946N 03121E

SAM SITE NOT COVERED ON PHOTOGRAPHY.

ONLY 10 PERCENT OF 5-NM RADIUS SEARCH AREA ALONG THE NILE RIVER AND WEST OF THE RIVER COVERED ON CLEAR PHOTOGRAPHY. NO AE SUPPORT OR STORAGE FACILITIES OBSERVED.

CAIRO SAM SITE B33-2 EG 3017N 03107E

SAM SITE NOT COVERED.

APPROXIMATELY 10 PERCENT OF 5-NM RADIUS SEARCH AREA COVERED ON PHOTOGRAPHY. SCATTERED CLOUDS OBSCURE PART OF THE AREA. NO AE STORAGE OR SUPPORT FACILITIES OBSERVED IN CLOUD-FREE PORTIONS.

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

M110234 CAIRO SAM SITE B21-2 EG 2948N 03108E

SITE IS CLOUD COVERED. SUPPORT CONSISTS OF 3
SEPARATELY SECURED PARTS WITH A TOTAL OF 7
BUILDINGS AND IS PROBABLY COMPLETE. THE 2 ALTERNATE
SITES LOCATED 1 NM EAST AND 1 NM ESE OF THE SITE
RESPECTIVELY ARE UNOCCUPIED.

EASTERN 40 PERCENT OF 5-NM RADIUS SEARCH AREA IS
COVERED ON CLEAR PHOTOGRAPHY. NO EVIDENCE OF NUCLEAR
SUPPORT OBSERVED.

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

**Air
Facilities**

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

AIR FACILITIES

[] KU-TIEN-TZU AIRFIELD CH 4359N 12623E

[] NO APPARENT CHANGE IN FACILITIES SINCE []
[] SEP 64. NO RADAR OBSERVED.

AIRCRAFT MAINTENANCE AND REPAIR PLANT CONTAINS
 1 LARGE ASSEMBLY BUILDING, 1 SUBASSEMBLY BUILDING,
 2 WORKSHOPS, 1 PROBABLE ENGINE TEST BUILDING,
 2 HANGARS, AND SEVERAL SMALL SUPPORT BUILDINGS.
 NO SIGNIFICANT CONSTRUCTION OBSERVED IN AIRCRAFT
 PLANT SINCE [] JUN 62.

AIRCRAFT -- 1 BEAGLE, 77 FAGOT/FRESCO, AND 2 SMALL
 STRAIGHT-WING.

[] TUBAN AIRFIELD ID 0845S 11510E

5,600 X 150 FT E/W BLACKTOP RUNWAY, SERVICEABLE,
 WITH A POSSIBLE RUNWAY EXTENSION ON THE WEST END OUT
 INTO THE LAGOON. FACILITIES INCLUDE 3 ADMINISTRATION
 BUILDINGS AND 1 SMALL MAINTENANCE BUILDING.

AIRCRAFT -- 1 PROBABLE HOUND.

[] OMSK AIRFIELD SOUTHWEST UR 5457N 07319E

ON THE WEST OUTSKIRTS OF OMSK.
 8,500 X 270 FT ENE/WSW, BLACKTOP RUNWAY,
 SERVICEABLE, WITH PARALLEL LOOP TAXIWAY AND 2
 CROSSOVER TAXIWAYS TO THE SOUTH AND A PARALLEL
 9,670 X 270 FT PROBABLE GRADED EARTH LANDING STRIP,
 SERVICEABLE, IMMEDIATELY NORTH. A LOOP TAXIWAY,
 SOUTH OF THE PARALLEL LOOP TAXIWAY, CONNECTS THE
 2 CROSSOVER TAXIWAYS WITH A LARGE PARKING APRON.

SUPPORT FACILITIES SE OF THE PARKING APRON
 INCLUDE 3 HANGARS, A CONTROL TOWER, AND 11
 ASSOCIATED BUILDINGS. A PROBABLE AIR FORCE

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

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TRAINING SCHOOL, IMMEDIATELY SOUTH OF THE HANGARS AND PROBABLY ASSOCIATED WITH THE AIRFIELD, CONTAINS 30 BUILDINGS. A HOUSING AREA IMMEDIATELY WEST OF THE PROBABLE SCHOOL CONTAINS 20 BUILDINGS. A POL STORAGE AREA NW OF THE HOUSING AREA CONTAINS 4 SEMI-BURIED TANKS, 44 HORIZONTAL TANKS, AND 12 ASSOCIATED BUILDINGS. A SECOND POL STORAGE AREA AT THE SE END OF THE LOOP TAXIWAY CONTAINS 4 SEMI-BURIED TANKS, 41 HORIZONTAL TANKS, AND 5 ASSOCIATED BUILDINGS. A SECURED, PROBABLE MOTOR POOL WITH 4 BUILDINGS IS IMMEDIATELY WEST.

A SNOW-COVERED SOD LANDING AREA, SERVICEABLE, IS LOCATED IMMEDIATELY SE OF THE MAIN RUNWAY. SUPPORT FACILITIES AT THE SOUTH END OF THE RUNWAY INCLUDE 1 HANGAR, 2 ADMINISTRATION BUILDINGS, AND APPROXIMATELY 25 ASSOCIATED BUILDINGS. RUNWAY LANDING STRIP AND TAXIWAYS ARE CLEARED OF SNOW.

AIRFIELD IS EQUIPPED WITH GCA AND EITHER ILS OR RUNWAY BEACONS. A PROBABLE RADAR SITE IS AT THE EAST END OF THE PARALLEL LOOP TAXIWAY.

AIRCRAFT -- 2 CAMEL, 1 CAMEL/BADGER, 79 BEAGLE, 3 CAT/CUB, 3 CAB, 16 COLT, 16 PROBABLE HOUND, 4 CRATE, 1 COOT, AND 16 SMALL UNIDENTIFIED STRAIGHT-WING.

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

**Nuclear
Energy**

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**Military
Activity**

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

MILITARY ACTIVITY

PYONGYANG/SA-DONG AREA, MIL INSTALLATION KN 3900N 12550E

LARGE MILITARY HEADQUARTERS AREA (PROBABLY ASSOCIATED WITH PYONGYANG-EAST AIRFIELD) AT EAST EDGE OF PYONGYANG CONTAINS AT LEAST 16 BARRACKS-TYPE BUILDINGS, 5 ADMINISTRATION-TYPE BUILDINGS, 35 SUPPORT BUILDINGS, 10 STORAGE BUILDINGS, 2 PARADE/ATHLETIC FIELDS, SEVERAL TRAINING AREAS, AND AT LEAST ONE 6-GUN AAA POSITION. AREA IS COVERED ON CLEAR PHOTOGRAPHY. NO MILITARY VEHICLES OR EQUIPMENT OBSERVED.

I-HSIEN ARMY BARRACKS SOUTH CH 4128N 12112E

INSTALLATION CONSISTS OF 2 AREAS 4.5 NM SOUTH OF I-HSIEN.

THE FIRST AREA, 3.5 NM SSW OF I-HSIEN, CONTAINS 87 BARRACKS, 12 ADMINISTRATION BUILDINGS, APPROXIMATELY 50 STORAGE BUILDINGS, 1 MESSHALL, 1 THEATER/ GYMNASIUM, AND 20 SUPPORT BUILDINGS.

THE SECOND AREA, 1 NM SOUTH OF THE FIRST AREA, CONTAINS 45 BARRACKS, 4 ADMINISTRATION BUILDINGS, 32 STORAGE/SUPPORT BUILDINGS, 3 MESSHALLS, AND A POSSIBLE EXPLOSIVES STORAGE FACILITY WITH 6 BUILDINGS. NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

I-HSIEN BARRACKS CH 4122N 12114E

NO APPARENT CHANGE SINCE [REDACTED] MAY 63.
NO VEHICLES OR EQUIPMENT OBSERVED.

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

I-HSIEN ARMY BARRACKS SOUTHWEST CH 4131N 12112E

NO APPARENT CHANGE SINCE [REDACTED] MAY 63, EXCEPT AS FOLLOWS -- AREA A HAS 45 BARRACKS, AREA C HAS 12 BARRACKS, AREA D HAS 15 BARRACKS, AND THE 2 AMMUNITION STORAGE AREAS HAVE 25 DISPERSED STORAGE BUILDINGS. NO VEHICLES, WEAPONS, OR EQUIPMENT OBSERVED.

ULAN-UDE ARMY BARRACKS DIVIZIONAYA UR 5154N 10731E

INSTALLATION 7.5 NM NNW OF ULAN-UDE CONTAINS APPROXIMATELY 40 BARRACKS-TYPE BUILDINGS, 32 BARRACKS/STORAGE BUILDINGS, 28 STORAGE BUILDINGS, 3 PROBABLE ADMINISTRATION BUILDINGS, 14 PROBABLE VEHICLE MAINTENANCE BUILDINGS, APPROXIMATELY 40 SUPPORT BUILDINGS, A DRIVER-TRAINING AREA, AND A MOVING TARGET RANGE. NUMEROUS POSSIBLE VEHICLES/TANKS/SP GUNS OBSERVED IN THE VEHICLE MAINTENANCE AREAS. AREA APPEARS OCCUPIED. HAZE, OBLIQUITY, AND SNOW-COVER PRECLUDE FURTHER INTERPRETATION.

POBEDINO ARMY BARRACKS UR 4950N 14248E

A SMALL SECURED STORAGE AREA ON THE SW EDGE OF POBEDINO CONTAINS 12 LARGE STORAGE BUILDINGS AND 15 SMALLER SUPPORT BUILDINGS. NO MILITARY BARRACKS AREAS OR VEHICLES OBSERVED.

PROVIDENIYA ARMY BARRACKS URELIK UR 6424N 17311W

INSTALLATION, IMMEDIATELY NE OF PROVIDENIYA/URELIK AIRFIELD, AT THE FORMER TOWN OF URELIK, CONTAINS 59 BARRACKS, 7 ADMINISTRATION BUILDINGS, 18 STORAGE BUILDINGS, 11 SUPPORT BUILDINGS, 165 SMALL RESIDENTIAL HOUSES, AT LEAST 40 OTHER MISCELLANEOUS BUILDINGS, AND 2 LARGE SHEDS. A POSSIBLE ARTILLERY

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

PARK CONTAINS 3 MAINTENANCE BUILDINGS, 5 SMALL SUPPORT BUILDINGS, 6 VEHICLES, AND 62 POSSIBLE FA PIECES. A VEHICLE PARK CONTAINS 3 MAINTENANCE BUILDINGS, 3 SUPPORT BUILDINGS, AND AT LEAST 35 VEHICLES. A SMALL TRAINING AREA CONTAINS 1 REVETTED BUILDING AND 5 WEAPONS REVETMENTS. PORT FACILITIES INCLUDE 1 SMALL PIER. AREA IS OCCUPIED.

ROSTOV ARMY BARRACKS NORTHWEST UR 4714N 03941E

NO MILITARY INSTALLATION OR ACTIVITY OBSERVED AT ABOVE COORDINATES.

OMSK ORDNANCE AND AMMUNITION DEPOT UR 5501N 07324E

RAIL-SERVED AREA CONTAINS OPEN STORAGE SPACE, 6 REVETTED BUILDINGS, 50 WAREHOUSES, 8 MULTISTORY BARRACKS, A MULTISTORY/MULTIWINING ADMINISTRATION BUILDING WITH HEATING PLANT, 40 SUPPORT BUILDINGS, AND A FIRING-IN BUTT. AREA IS OCCUPIED.

APPROXIMATELY 18 PROBABLE CARGO TRUCKS AND NUMEROUS OTHER VEHICLES/PIECES OF EQUIPMENT OBSERVED IN AREA.

TASHKENT ORDNANCE DEP AND BKS URTA-AUL UR 4111N 06908E

RAIL-SERVED, DOUBLE-SECURED DEPOT 9.5 NM SW OF TASHKENT, CONTAINS 1 PROBABLE ADMINISTRATION BUILDING, 1 LARGE MONITOR-ROOFED BUILDING, 15 LARGE STORAGE BUILDINGS, 6 SMALL STORAGE BUILDINGS, AND 17 SMALL SUPPORT BUILDINGS. A SUPPORT AREA ON THE NORTH END OF THE DEPOT CONTAINS 1 ADMINISTRATION BUILDING, 5 BARRACKS, AND 7 SUPPORT BUILDINGS. AREA APPEARS OCCUPIED.

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

TWENTY-SIX PROBABLE CARGO TRUCKS, APPROXIMATELY 24 VEHICLES, AND AN UNDETERMINED NUMBER OF POSSIBLE ARTILLERY PIECES ARE IN THE DEPOT.

TSO-NA AREA CAMP AND STORAGE DUMP TI 2800N 09201E

THREE SMALL SEPARATE AREAS ARE 5 NM NE OF TSO-NA ALONG EAST AND WEST SIDES OF ROAD.

AREA A (ON WEST SIDE OF ROAD) -- SECURED AREA CONTAINS 3 BUILDINGS, 2 SMALL SHEDS, AND 12 MEDIUM AND 2 LARGE TENTS, AND UNIDENTIFIED MATERIAL IN OPEN STORAGE.

AREA B (IMMEDIATELY NORTH OF AREA A ON EAST SIDE OF ROAD) -- 2 SMALL BUILDINGS, 2 MEDIUM TENTS, AND 10 ROWS OF UNIDENTIFIED MATERIAL.

AREA C (EAST OF AREA B) -- SECURED AREA CONTAINS 1 LARGE BUILDING, 2 MEDIUM TENTS, AND 15 SMALL TENTS. AREA CAN SERVE AS EITHER MILITARY OR ROAD CONSTRUCTION SUPPORT.

OMSK PROBABLE MILITARY AREA EAST UR 5455N 07327E

PROBABLE MILITARY BARRACKS CONSISTS OF 2 SECURED, ASSOCIATED AREAS. THE LARGEST AND WESTERNMOST AREA CONTAINS 3 ADMINISTRATION, 7 STORAGE, 7 LARGE, AND 6 SMALL SUPPORT BUILDINGS AND A PROBABLE ATHLETIC FIELD/PARADE GROUND. JUST OUTSIDE THE SECURITY FENCE AT THE SE CORNER ARE 2 LARGE PROBABLE ADMINISTRATION BUILDINGS AND 1 SMALL BUILDING. THE SECOND AREA IS IMMEDIATELY EAST OF THE LARGER AREA AND CONTAINS 1 U-SHAPED AND 1 LARGE ADMINISTRATION AND 4 SMALL BUILDINGS. AREAS ARE COVERED ON GOOD QUALITY, SNOW-COVERED PHOTOGRAPHY WITH CLOUD SHADOW. NO VEHICLES OR MILITARY EQUIPMENT OBSERVED.

TOP SECRET CHESS RUFF

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

OMSK MILITARY BARRACKS WEST UR 5455N 07319E

AREA 2.5 NM SW OF OMSK SW AIRFIELD CONTAINS 2 LARGE, AND 1 SMALL U-SHAPED MULTISTORY ADMINISTRATION BUILDINGS, 10 OTHER PROBABLE ADMINISTRATION BUILDINGS (6 MULTISTORY), 18 MULTISTORY PROBABLE BARRACKS, 5 OTHER BUILDINGS, 1 BUILDING UNDER CONSTRUCTION, AND AN ATHLETIC OVAL/PARADE FIELD. MOST OF THE BUILDINGS ARE INDIVIDUALLY FENCED. AREA OBSERVED ON GOOD QUALITY SNOW-COVERED PHOTOGRAPHY. NO VEHICLES OR MILITARY EQUIPMENT OBSERVED.

OMSK RR RPR AND TANK PLT VOROSHILOV 174 UR 5456N 07324E

VEHICLES OBSERVED AT THE PLANT INCLUDE 4 PROBABLE TANK CARS, 9 BOX CARS, AND APPROXIMATELY 50 POSSIBLE VEHICLES OR CRATES. NO MISSILE TEST STANDS OR CONSTRUCTION ACTIVITY OBSERVED.

A SEARCH FOR A TANK PROVING GROUND NEAR THE PLANT REVEALS 2 TRACKED-VEHICLE DRIVING RANGES SOUTH OF THE CITY. THE OMSK MANEUVER AREA SOUTH IS 5.5 NM SOUTH OF THE PLANT. TWENTY-TWO TANKS ARE VISIBLE AT THE OMSK MILITARY AREA, 3.5 NM SE OF THE PLANT.

25X1

25X1

25X1

25X1

25X1

25X1

25X1

**Other
Activity**

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

OTHER ACTIVITY

[] GOLOVCHINO SENSITIVE OPERATIONS COMPLEX UR 5034N 03545E

THE COMPLEX APPEARS COMPLETE, AS EVIDENCED BY THE DISMANTLING OF THE CONSTRUCTION SUPPORT RAIL FACILITY AND THE COMPLETE EARTH COVERING OF ALL BUNKERS. THERE ARE 5, POSSIBLY 6, BUNKERS IN THE OPERATIONS AREA. ACCESS ROADS TO THE BUNKERS HAVE NOT BEEN CLEARED OF SNOW. QUALITY OF PHOTOGRAPHY PRECLUDES DETERMINATION OF ALL BUNKER TYPES, BUT AT LEAST 2 ARE IDENTICAL TO THE FIRST GENERATION BUNKERS AT BEREZOVKA AND CHEBSARA.

THE OPERATIONS SUPPORT FACILITY WITH ITS LARGE, LONGITUDINAL HIGH BAY DRIVE-THROUGH BUILDING AND 2 ASSOCIATED SMALLER BUILDINGS IS ALSO IDENTICAL TO THE FACILITIES AT BEREZOVKA AND CHEBSARA. THE SMALL SUPPORT AREA JUST OUTSIDE THE OPERATIONS AREA IS ALSO APPARENTLY IDENTICAL TO THOSE AT BEREZOVKA AND CHEBSARA. A LARGE COAL-FIRED STEAMPLANT IS BETWEEN THE OPERATIONS AREA AND THE MAIN SUPPORT AREA. ABOVE-GROUND STEAM LINES FROM THE PLANT SERVE BOTH THE OPERATIONS AND SUPPORT AREAS.

THE MAIN SUPPORT AREA CONTAINS 5 OF THE CHARACTERISTIC LARGE MULTISTORY BARRACKS WITH AN EXCAVATION FOR THE FOUNDATIONS OF A SIXTH. AN ADDITIONAL 25 SMALLER HOUSING UNITS AND ADMINISTRATION BUILDINGS ARE VERY SIMILAR TO THOSE AT BEREZOVKA. THERE ARE TWENTY-TWO [] AND THREE [] RAIL CARS IN THE OPERATIONS SUPPORT RAIL FACILITY. THE [] CARS APPEAR IDENTICAL TO THE ONES OBSERVED AT BORISOGLEBSK ON THIS MISSION, AND AT THE OTHER SENSITIVE OPERATIONS COMPLEXES ON VARIOUS OTHER MISSIONS. THE CHARACTERISTIC TRANSLOADING CRANE IS PRESENT IN THE RAIL FACILITY.

THERE ARE A TOTAL OF 20 PROBABLE VANS AMONG THE VEHICLES IN THE MOTOR POOL AREA. ELEVEN OF THESE HAVE [] LONG BODIES, 9 HAVE 15-FT LONG BODIES. SIMILAR VANS WERE OBSERVED AT NYANDOMA SENSITIVE OPERATIONS COMPLEX ON [] APR 64.

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

(ATTACHMENTS 16 AND 17)

TOP SECRET CHESS RUFF

25X1

25X1

25X1

25X1

Attachments

Low

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT I

25X1
25X1

K1
SILO UNDER CONSTRUCTION

K2
SILO UNDER CONSTRUCTION

L-SHAPED
ELECTRONIC FACILITY

CONTROL BUILDING

K3

LAUNCH COMPLEX K, TYURATAM MISSILE TEST CENTER, USSR

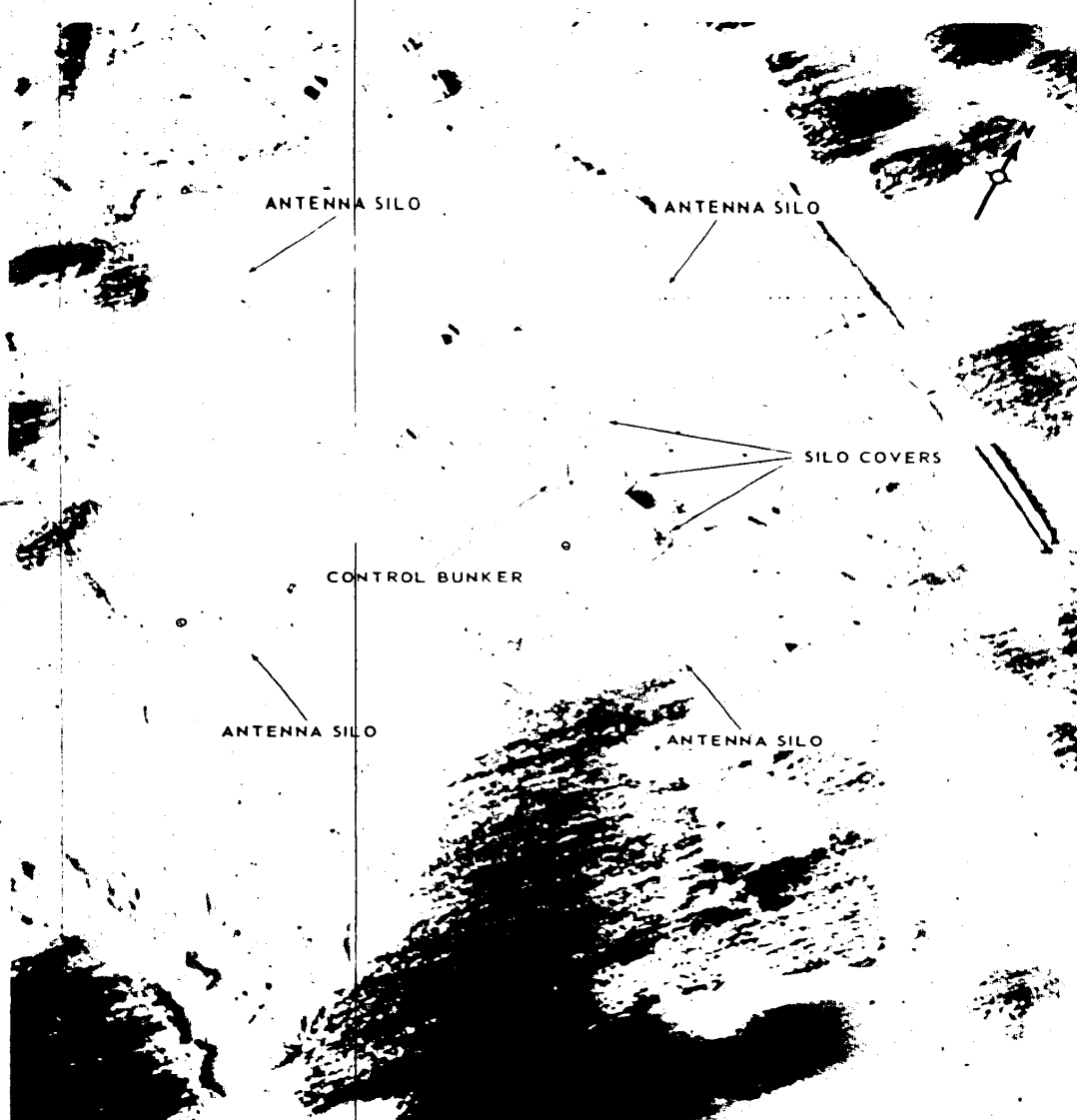
TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 2



LAUNCH AREA A, OMSK ICBM COMPLEX, USSR

TOP SECRET CHESS RUFF

25X1

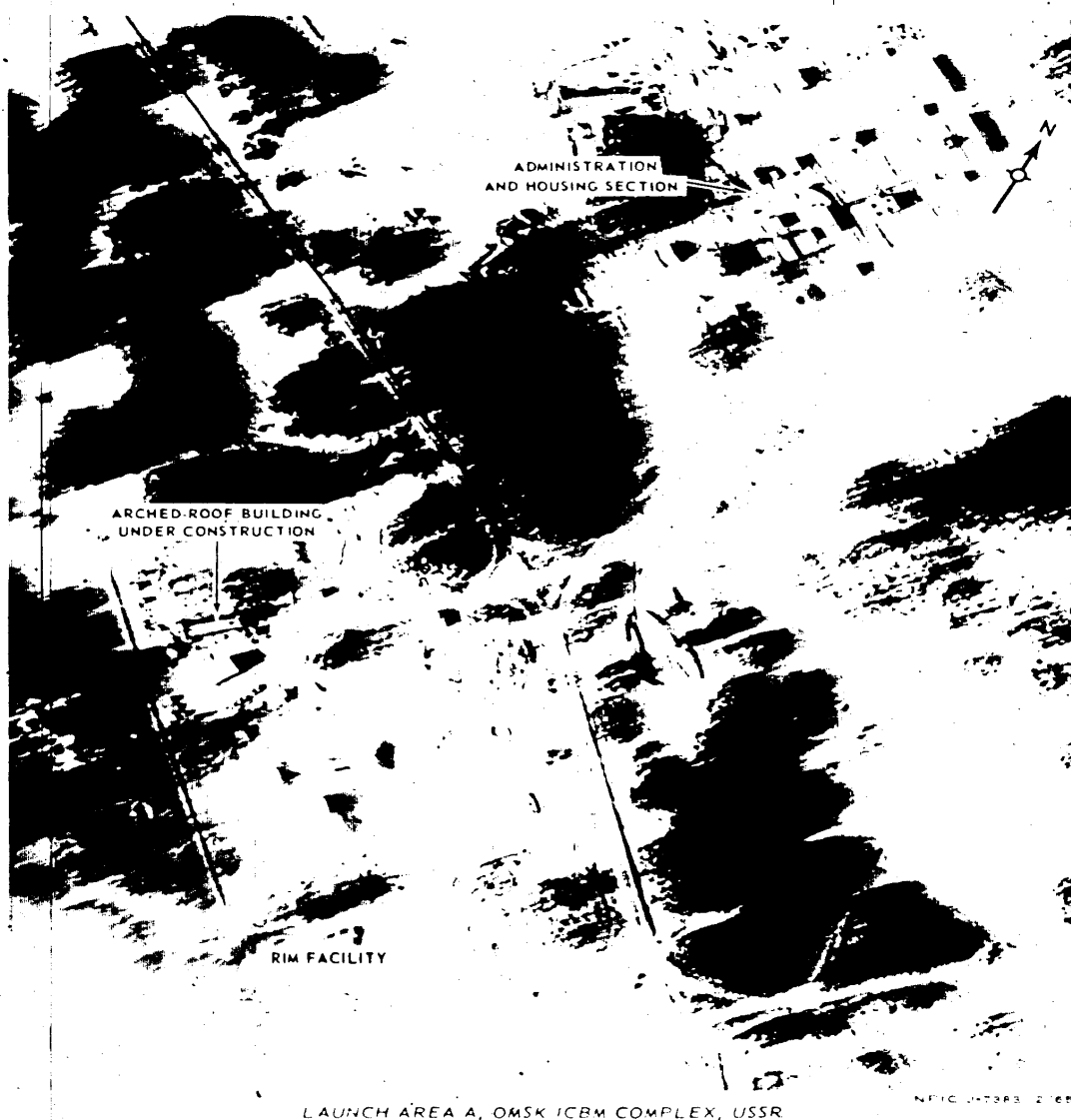
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25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 3



TOP SECRET CHESS RUFF

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 4

25X1

25X1

INSTRUMENTATION
SITE 121

SAM LAUNCH COMPLEX, KAPUSTIN YAR VLADIMIROVKA MISSILE TEST CENTER, USSR

TOP SECRET CHESS RUFF

25X1

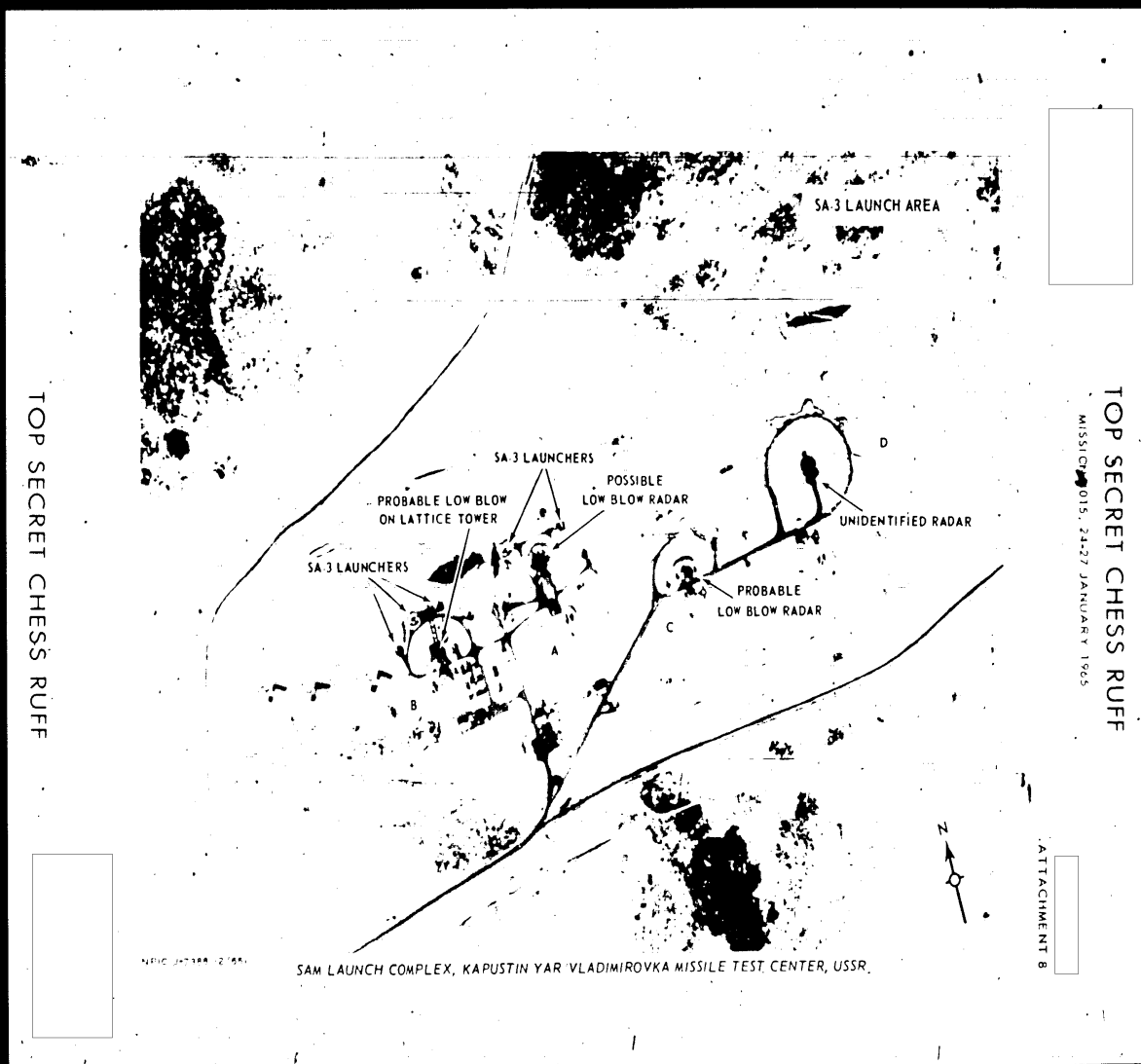






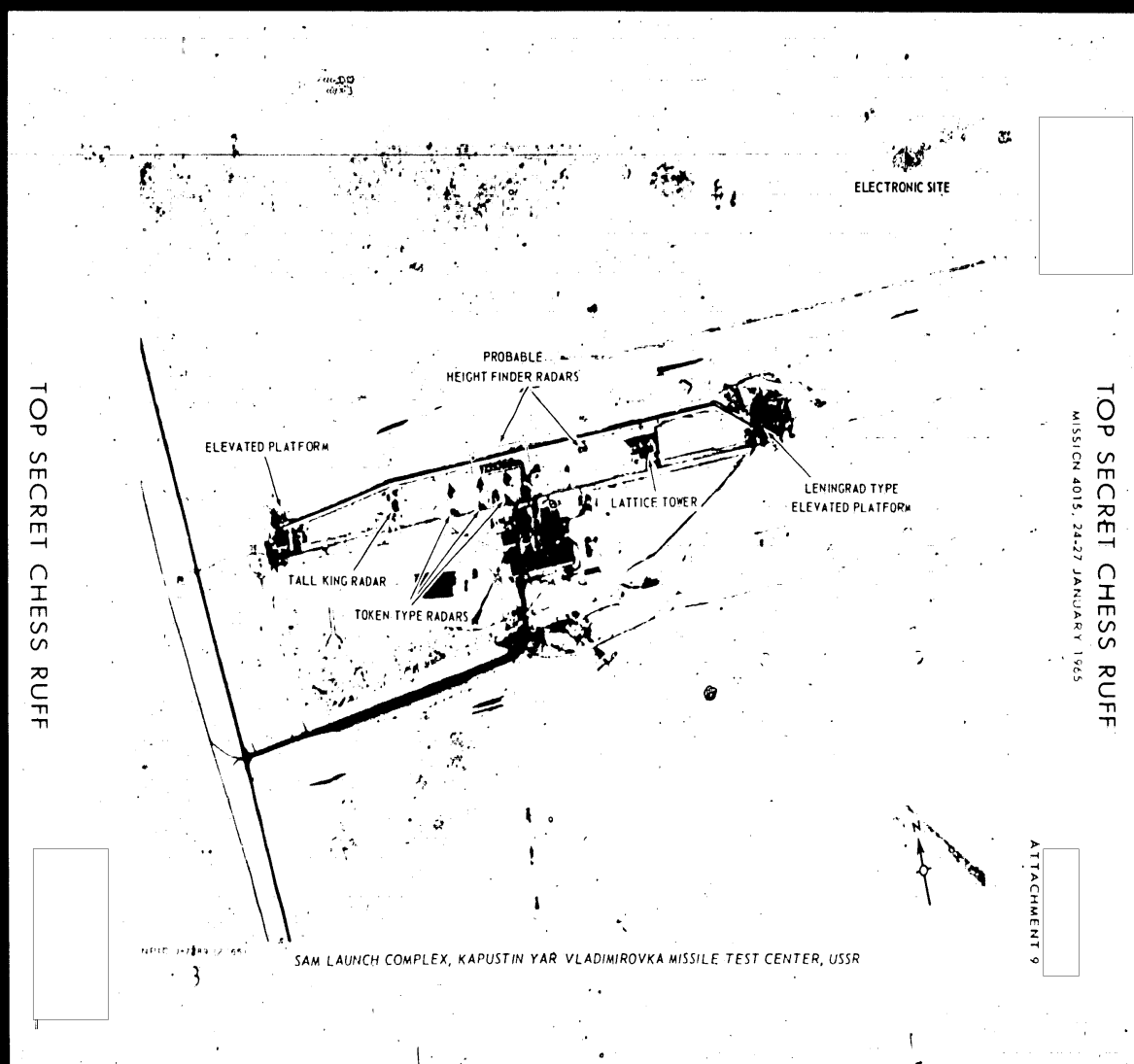
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25X1X1



25X1

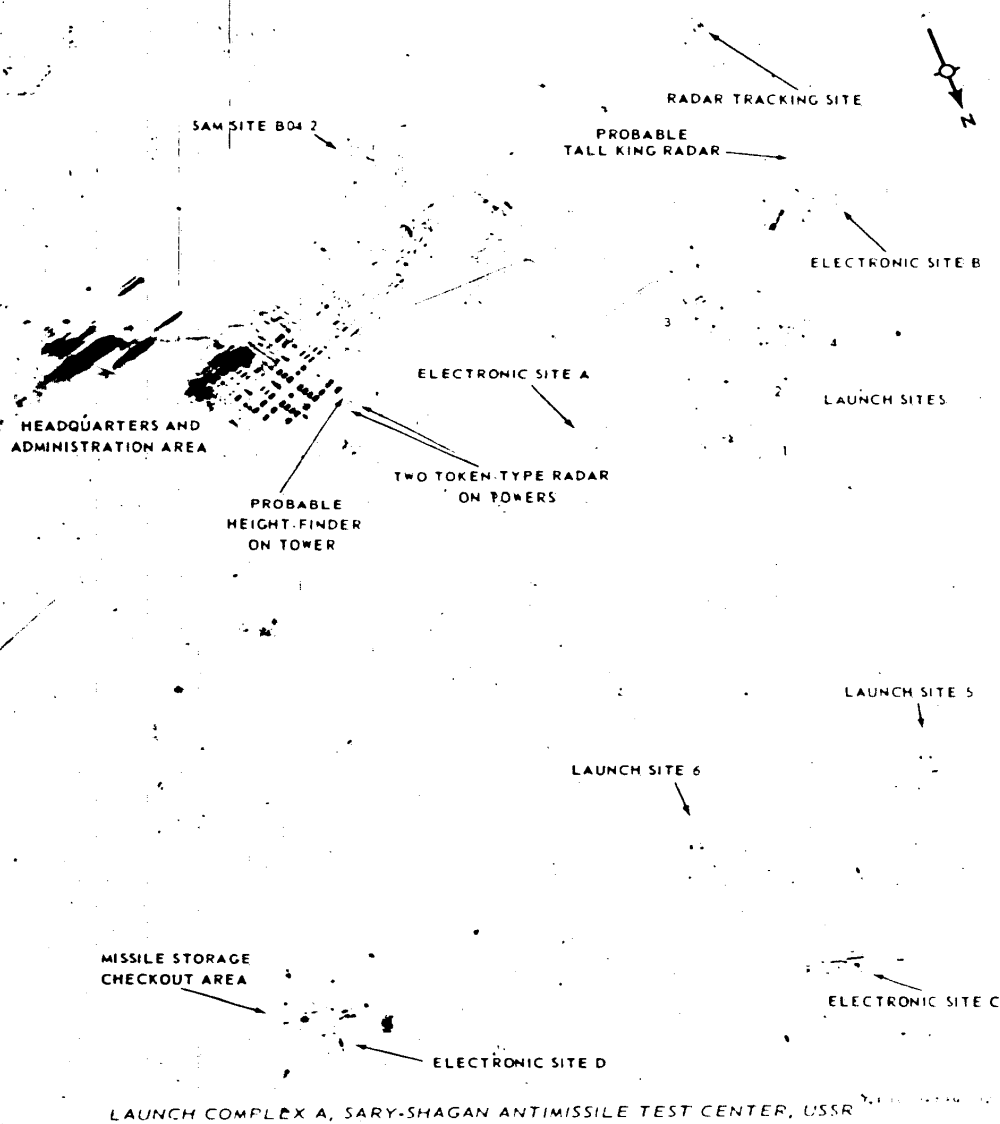
25X1



TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 10



TOP SECRET CHESS RUFF

25X1

25X1

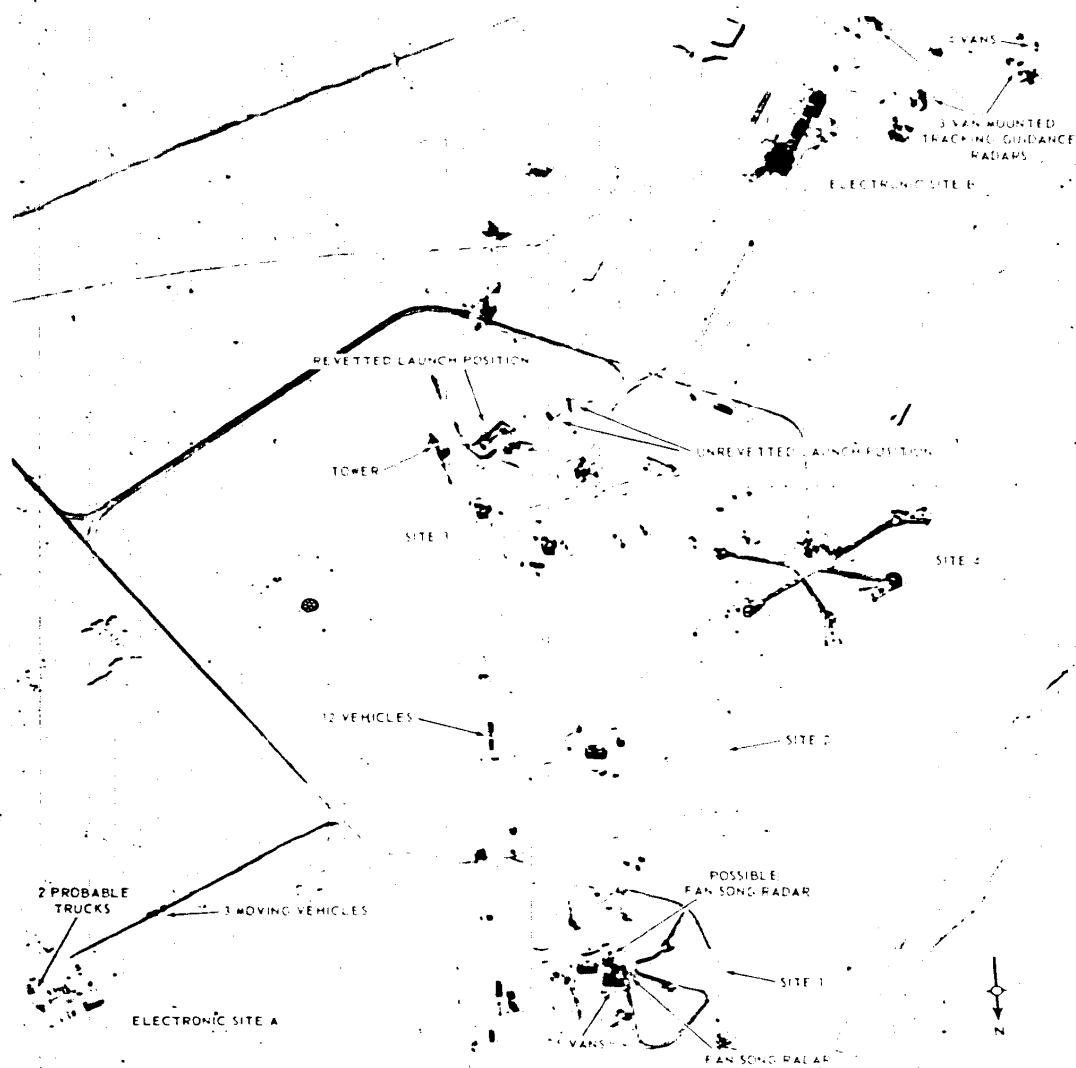
25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT II

25X1
25X1



LAUNCH COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

REF ID: A69112 (1965)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 12



LAUNCH COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

TOP SECRET CHESS RUFF

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 13

25X1

25X1

LAUNCHER ERECTOR

LAUNCH SITE 6



LAUNCH COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

REF ID: A74912

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 14

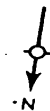
50' DOME

CONTROL CENTER

PROBABLE CRANE

NORTHEAST EXTREMITY

TOWER WITH
TWO PARABOLIC REFLECTORS



LAUNCH COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

NPIC 0-7394 (2-65)

TOP SECRET CHESS RUFF

25X1

25X1

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

25X1

25X1

ATTACHMENT 15



TOWER WITH
TWO PARABOLIC REFLECTORS

SOUTHWEST EXTREMITY

LAUNCH COMPLEX A, SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 16

25X1

25X1



SENSITIVE OPERATIONS COMPLEX, GOLOVCHINO, USSR

REF ID: A7796 (2-68)

TOP SECRET CHESS RUFF

25X1

TOP SECRET CHESS RUFF

MISSION 4015, 24-27 JANUARY 1965

ATTACHMENT 17



OPERATIONS SUPPORT
RAIL FACILITY

MOTOR POOL

CONSTRUCTION SUPPORT
RAIL FACILITY
DISMANTLED

MAIN SUPPORT AREA

STEAM PLANT

SENSITIVE OPERATIONS COMPLEX, GOLOVCHINO, USSR

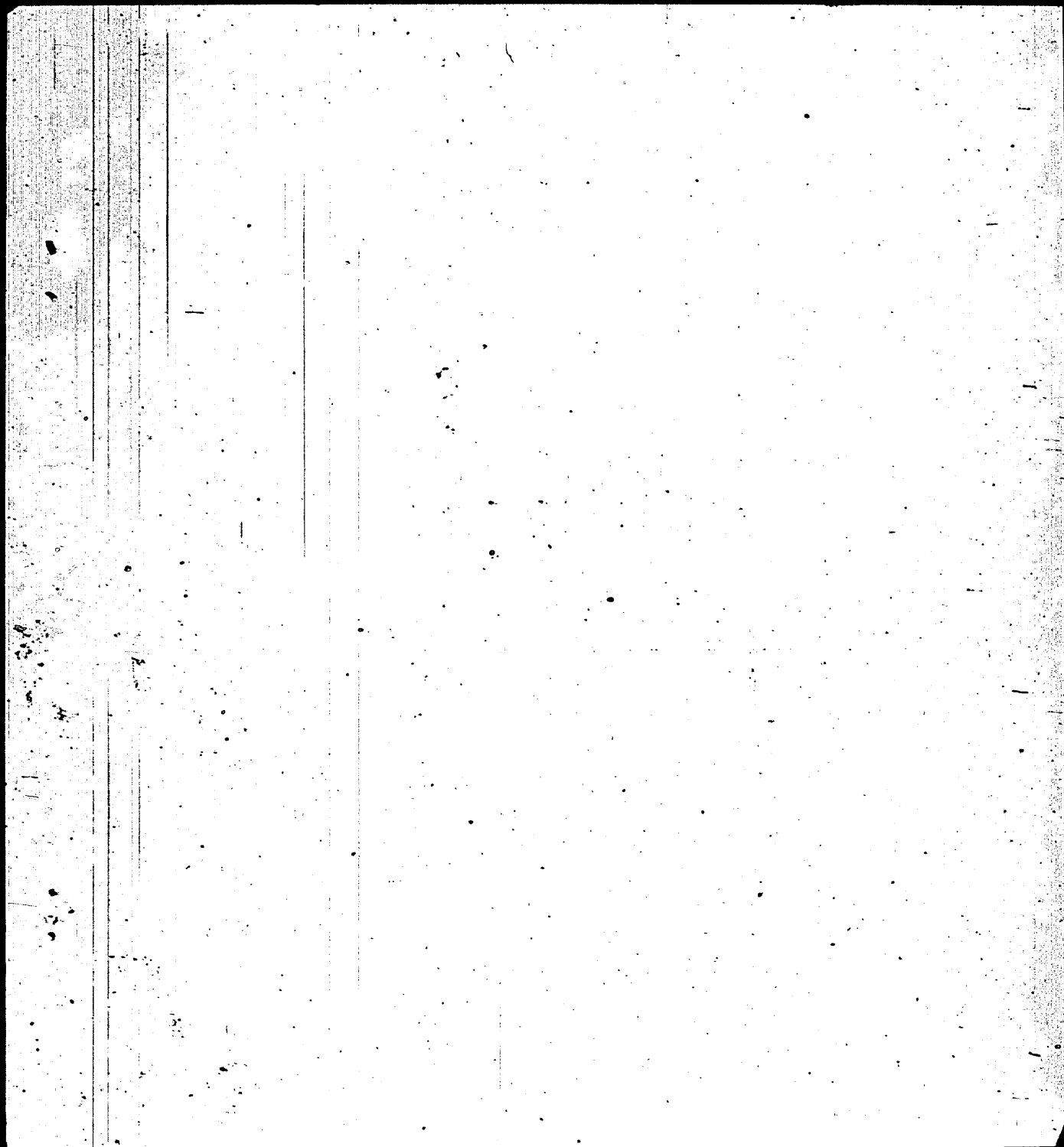
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TOP SECRET CHESS RUFF

25X1

25X1

25X1



TOP SECRET

TOP SECRET